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Nova Scotia
Department of
Agriculture and Marketing

# EXTENSION

# ANNUAL REPORT
# 1989

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# ANNUAL REPORT
# EXTENSION SERVICES BRANCH
# NOVA SCOTIA DEPARTMENT OF AGRICULTURE & MARKETING

## 1989

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The Extension Services Branch plays a key role in the development of people and the agricultural industry of Nova Scotia. 1989 was a year of change - change to meet new challenges and opportunities within the agricultural industry.

The primary objective of the Branch is to work with people to assist them in making decisions that will improve their economic and social well-being. Personal contact remains as a principal means of achieving this objective.

Despite difficult and uncertain economic conditions in Canada and world markets, Nova Scotia agriculture continues to show growth and stability. The diversity of our industry, the rate of adoption of new technology and the management capabilities of our farmers contribute heavily to gains in production and economic efficiency in our industry.

In submitting the 1989 Annual Report for the Extension Services Branch, I want to note that significant change occured in our Branch in 1989. Gabriel Comeau left the Farm Management Supervisor position to play a leadership role as Secretary-Manager of the Dairy Commission. Jack Redden, Assistant Director of the Branch, became the Director of the Livestock Services Branch during the year. Bob Bennett has become Assistant Director of the Branch in 1989. My thanks and appreciation to these staff members for their dedication to the Branch and best wishes in their new roles. Thanks and appreciation also to Ralph Morehouse, Deputy Minister, and Dick Huggard, Executive Director, for their guidance and assistance, and to the other Branch Directors and staff for their co-operation and assistance. In 1989, a special thank you to all Extension staff for their dedication to and leadership in the agricultural industry in which we serve.

Respectfully submitted,

Rollie L. Hayman, P. Ag.
Director

# STAFF OF EXTENSION SERVICES BRANCH
## DECEMBER 31, 1989

R.L. Hayman, BSc (Agr.) M.Sc., P.Ag.
Director, Truro, N.S.

R.A. Bennett, B.S.A., P.Ag.
Asst. Director, Truro, N.S.

Mary Guinan, Secretary
Truro, N.S.

## AGRICULTURAL REPRESENTATIVES

| | |
|---|---|
| George MacKenzie, BSc (Agr.), P.Ag. | Mgr. Field Services, Truro |
| Harvey MacDonald, BSc (Agr.), P.Ag. | Sydney |
| Leo Cox, Agriculture Fieldman, | Mabou |
| Donald L. MacDonald, BSc(Agr.), P.Ag. | Antigonish |
| James Neary, BSc (Agr.), P.Ag. | Pictou |
| Yvonne Thyssen-Post, BSc (Agr.), P.Ag. | Truro |
| Ralph Murray, BSc (Agr.), P.Ag. | Nappan |
| Gordon Crowe, BSc (Agr.), P.Ag. | Middle Musquodoboit |
| Bev Connell, BSc (Agr.), A.I.T. | Acting Agr. Rep. Windsor |
| Fred Walsh, BSc (Agr.), P.Ag. | Kentville |
| Arthur Pick, BSc (Agr.), P.Ag. | Bridgewater |
| Laurie Ells, BSc (Agr.), P.Ag. | Lawrencetown |
| Bruce Gilliatt, BSc (Agr.), P.Ag. | Weymouth |
| Malcolm Fuller, BSc, P.Ag. | Yarmouth |

## ASSISTANT AGRICULTURAL REPRESENTATIVES

| | |
|---|---|
| Joe Calder, BSc (Agr.), P.Ag. | Middle Musquodoboit |
| Vacant | Nappan |

## 4-H REPRESENTATIVES

| | |
|---|---|
| Elizabeth Crouse, BSc (Agr.), P.Ag. | Supervisor, Truro |
| Lynn Thurber, BSc, P.Ag. | Bridgewater |
| Joanne Beaton, BSc (Agr.), A.I.T. | Lawrencetown |
| Ruth Withrow, BSc (Agr.), P.Ag. | Windsor |
| Weldon Smith, BSc (Agr.), P.Ag. | Truro |
| Don Butler, Agricultural Technician | Pictou |
| Bill MacLeod, BSc (Agr.), A.I.T. | Sydney |

## SPECIAL PROJECT OFFICERS

| | |
|---|---|
| Vacant, | Manager/Asst. Programs, Truro |
| Don Cameron, B.A., MSc., P.Ag. | Middle Musq. & Halifax |
| Al Connor, B.A., M.Sc., P.Ag. | Bridgewater |
| Jack Hicks, B.A., B.D. | St. Peter's |

## FARM MANAGEMENT SPECIALISTS

| | |
|---|---|
| Vacant, | Supervisor, Truro |
| Peter Dekker, BSc (Agr.), P.Ag. | Sr. Farm Mgt. Spec., Kentville |
| Jim Houghton, BSc (Agr.), MSc, P.Ag. | Farm Mgt. Spec., Truro |
| Alan Grant, BSc (Agr.), P.Ag. | Farm Mgt. Spec., Truro |

## Technicians

| | |
|---|---|
| Ronda Bellefontaine, BSc (Agr.) | Truro |
| Pam Fraser, | Kentville |

## HOME ECONOMISTS

| | |
|---|---|
| Susan Horne, BSc (H.Ec.), P.Ag. | Supervisor, Truro |
| Gail Keddy, BSc (H.Ec.), P.Ag. | Truro |
| Marjorie Knowles, R.N., BSc (H.Ec.), P.Ag. | Kentville |
| Valorie MacKinnon, BSc (H.Ec.), A.I.T. | Bridgewater |
| Jane Lewis, B.HEc, M.AEd. | Sydney |
| Cheryl Butts-MacMillan, B.HEc | Mabou |
| Colleen MacNeil, BSc (H.Ec.) | Antigonish |

## AGRICULTURAL ENGINEERING DIVISION

| | |
|---|---|
| John Higgins, BSc (Agr.), M.Sc., P.Eng., P.Ag. | Chief Engineer, Truro |
| Hank Kolstee, B.Eng. (Agr. Eng.), P.Eng. | Supervisor,(Land Protection),Truro |
| Peter Swinkels, BSc (Agr. Eng.), P.Eng. | Supervisor, Technicial Services, Truro |

## AGRICULTURAL ENGINEERS

| | |
|---|---|
| Laurie Cochrane, B.Eng. (Agr. Eng.), P.Eng. | Truro |
| David Browning, B.Eng (Agr. Eng.), P.Eng. | Truro |
| Carl Esau, B.Eng. (Agr. Eng.), P.Eng., P.Ag. | Truro |
| Trent Webster, BSc (Agr. Eng.), P.Eng., P. Ag. | Truro |
| Gary Bishop, BSc (Agr.), P.Eng., P. Ag. | Kentville |
| Larry Honey, B.Eng. (Agr. Eng.), MSc., P.Eng., P.Ag. | Kentville |

## TECHNICIANS

| | | |
|---|---|---|
| Robert Lawrence, | N.S.L.S., Surveyor | Truro |
| Bill Morley | Aboiteau Supt. | Annapolis Royal |
| Lindsay Carter | " " | Kentville |
| Brad Crewe | " " | Truro |
| Gary Gilbert | " " | Nappan |
| Ken Carroll | " " | Windsor |
| Gerard MacDonald | Agr. Technician | Truro |
| John Sullivan | " " | Truro |
| Bruce Curry | Draftsman | Truro |
| Dave Cameron | " | Kentville |
| Chris Curry | Land Imp. Insp. | Truro |
| John McCabe | " " " | Antigonish |
| Darrell Hingley | Surveyor's Asst. | Truro |

## A.F.D.A.

| | | |
|---|---|---|
| David Livingstone, | BSc (Agr.), A.I.T. | Co-ordinator |
| Darlene Stevenson, | BSc (Agr.), A.I.T. | Program Manager |

## A.L.F.I.

| | | |
|---|---|---|
| Laurie Bartlett, | BSc (Agr.), A.I.T. | Co-ordinator |

## CLERICAL STAFF

| | |
|---|---|
| Carolyn Rushton | Truro |
| Susan Wilson | Truro |
| Tracey Mitchell | Farm Mgt., Truro |
| Michelle VanOirschot | 4-H, Truro |
| Margie Clyke | Ext. Engineering, Truro |
| Linda Burchell | " " Truro |
| Carol Hudson | " " Truro |
| Linda MacLellan | AFDA, Truro |
| Linda McNutt | ALFI, Truro |
| Cheryl Gillis | Sydney |
| Shirley MacDonald | Mabou |
| Vacant | Antigonish |
| Laureen Boyd | Antigonish |
| Marie Matheson | Pictou |
| Sandra Strang | Nappan |
| Laura Canning | Middle Musq. |
| Dianne Johnson | Windsor |
| Cheryl Theriau | Kentville |
| Linda Fancy | Kentville |
| Donna Lombard | Kentville |
| Paulette Corkum | Bridgewater |
| Karen Brown | Lawrencetown |
| Arlene Burton | Weymouth |
| Marie Thibodeau | Yarmouth |

## PERSONNEL

During 1989, the staff complement was constituted as follows:

| | |
|---|---|
| Manager - Field Services | 1 |
| Agricultural Representatives | 12 |
| Asst. Agricultural Representative | 2 |
| Agricultural Fieldman | 1 |
| Manager - Assistance Programs | 1 |
| Special Projects Officers | 2 |
| Special Programs Co-ordinator | 3 |
| 4-H Representatives | 6 |
| Farm Management Specialists | 4 |
| Agricultural Engineers | 9 |
| Home Economists | 7 |
| Technicians | 16 |
| Secretaries | 25 |
| Director & Asst. Director | 2 |
| TOTAL | 91 |

## STUDY LEAVE

| | |
|---|---|
| Robb MacMillan, BSc, BSc (Agr.), P. Ag. | University of Guelph, Masters Program |

## TRANSFERS

| | |
|---|---|
| John Redden, BSc (Agr.), M.S., P.Ag. | Director, Livestock |
| Gabriel Comeau, BSc (Agr.), M.S., P.Ag. | Manager, Dairy Comm. |
| Robert Bennett, B.S.A., P.Ag. | Asst. Director, Extension |
| Joe Calder, BSc (Agr.), P.Ag. | O.M.A.F. Exchange |
| Don Cameron, B.A., M.Sc., P.Ag. | N.S.D.A.M. Exchange |
| Linda MacLellan, | Secretary, AFDA |

## NEW EMPLOYEES

| | |
|---|---|
| Laurie Bartlett, BSc (Agr.), A.I.T. | Coordinator, ALFI |
| Linda McNutt, | Secretary, ALFI |
| Colleen MacNeil, BSc (H.Ec.) | Home Economist, Antigonish |

## RESIGNATIONS

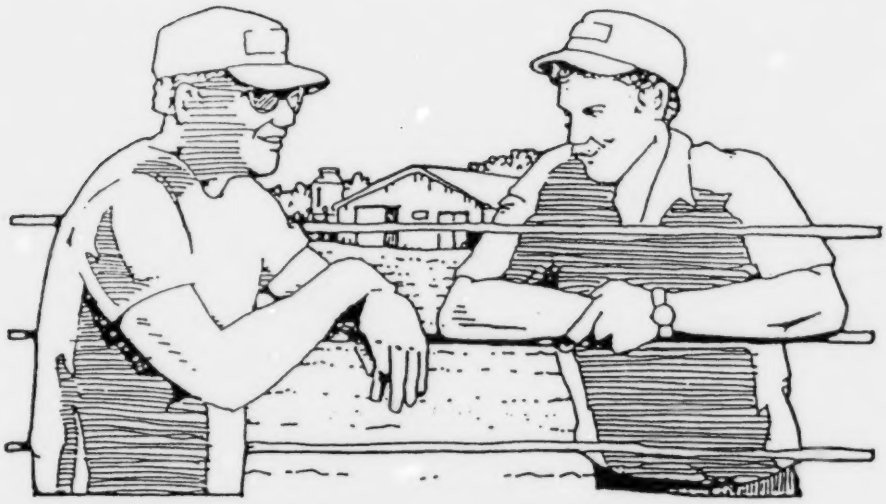
| | |
|---|---|
| Ellen O'Reilly, BSc (H.Ec.), M.Sc., P.Ag. | - Home Economist, Antigonish |
| Janine Thompson, BSc (Agr.), A.I.T. | - ALFI Co-ordinator, Truro |
| Liz Taylor - ALFI Secretary, | Truro |
| Carol Bray - Secretary, | Antigonish |

Nova Scotia

Department of
Agriculture and
Marketing

Extension Services Branch

# ANNUAL REPORT



## Agricultural Representatives and Special Projects Officers

## AGRICULTURAL REPRESENTATIVES AND SPECIAL PROJECTS OFFICERS

### INTRODUCTION

The Agricultural Representative Division continues to serve a broad range of rural clients. This division is the front line delivery system of an informal education network of applied research and government programs and policies.

Staff is comprised of fourteen county offices who provide information and services to clientele within the province. Twelve Agricultural Representatives, one (1) Agricultural Fieldman, two (2) Assistant Agricultural Representatives, 16 Clerical staff, one (1) Manager, Field Services, one (1) Manager of Assistance Programs and two (2) Special projects Officers.

To meet the primary objectives of providing "service to people", Agricultural Representatives play a key role in a number of areas including: -

- leadership in the planning and development of agriculture within their designated area in co-operation with the farm organizations
- communicate up-to-date technical knowledge to clientele
- provide information and recommend on designated financial assistance policies
- communicate problems, concerns and situations of their clientele to department administrators
- provide significant public relations information to those clientele and Nova Scotians within their designated area
- provide educational and technical upgrading opportunities for their clients through short courses, workshops, individual farm and office calls.

Agricultural Representatives must continue to up-date their technical knowledge and develop skills of agricultural production and marketing. There is also an increasing emphasis to improve communication, administration, counselling and public relations skills to deal with an increasing diverse clientele.

### PROGRAMS AND SERVICES:

Communications on a one to one basis as well as mass media is the primary method used by this division to contact clients. Through farm and office calls, staff are able to provide information and counsel farmers. Through workshops, short courses, field trips and tours, staff are able to up-date farmers on technological changes

in the industry. Through mass media such as radio, newspaper and newsletters, staff provide information of a general awareness on a wide range of topics.

The following statistical summary provides an indication of the extent of the contact and activities carried out by the Agricultural Representative staff.

| TABLE 1: | 1989 | 1988 | 1987 | 1986 | 1985 |
|---|---|---|---|---|---|
| # Client Calls | 5,008 | 5,896 | 6,320 | 6,149 | 5,215 |
| # Office Calls | 10,574 | 10,754 | 11,048 | 13,432 | 11,668 |
| # Short Courses, Meetings & Tours | 2,308 | 1,369 | 1,147 | 1,483 | 1,473 |
| # People Attending Short Course, Meetings & Tours | 27,809 | 38,612 | 34,461 | 37,451 | 42,488 |
| # Letters Written | 14,856 | 17,988 | 13,144 | 14,126 | 12,020 |
| # Publications & Circulars Dist. | 29,303 | 31,694 | 37,414 | 45,910 | 45,843 |
| # Radio Broadcasts Made | 155 | 244 | 174 | 262 | 260 |

Each Agricultural Representative's County office or area has a different set of available resources which include land, climate and people. Each Agricultural Representative develops programs and activities to meet the needs of their clients and resources.

George MacKenzie, P. Ag.
Manager, Field Services

## EASTERN REGION

### Antigonish-Guysborough

#### Overview

Agriculture has remained steady in the past year with a modest expansion in the beef sector due to the AFDA Comprehensive Farm Development program. More drainage tile is being installed, and soil PH has improved. Farmers continue to search for economical ways to harvest and store quality forage. Silage systems are becoming more common as a defense against weather, and new technology is being introduced. Seven new manure storage systems were constructed to conserve fertility and protect the environment.

#### Commodities - Organizations - Programs

For the first time in years the number of fluid milk producers did not change .. 57. Three more father to son transfers took place. The dairy facilities in this county are as modern as anywhere in the country. Nocardia Mastitis became a problem on several farms. Some excellent speakers were brought in to address this and other matters. Production continues to increase. Many producers are on the ADLIC program and are developing a market for breeding stock.

Beef production remains mainly in the hands of part-time producers. Over 40 are on the AFDA-CFD program. The economics of beef production is still being addressed on these farms. Major improvements being made to land, buildings and cattle. The sheep industry is losing the battle to coyotes. Five more producers left, including one with a flock of 350 ewes. Some are having success with electric fencing and housing sheep at night.

Commodities such as hogs, poultry, mink, fox, strawberry and blueberry have shown very little change during the past year.

The Federation of Agriculture is strong and active. They help sponsor educational meetings. The Farm of the Year went to John and Thelma Rovers. The Federation has an excellent system of raising dues to cover expenses.

The Eastern N.S. Holstein Club is very active. Over 90 head were shown at the Eastern N.S. Exhibition in Antigonish. In two classification rounds in 1989, they had 5 excellent and 127 very good cows. A successful sale of 40 head averaged $2,000. There are tremendous results coming from a program started only 25 years ago.

The Soils and Crops Association featured soil testing, pasture management, weed control and silage management systems.

The Antigonish Animal Hospital closed its doors, leaving the

Antigonish Vet Clinic to service the area.

Considerable use was made of Dept. of Agriculture and Marketing programs.

## Inverness - Victoria

### Overview

Agriculture in this region featured no major changes in 1989. Weather conditions were fairly good resulting in an abundance of forages. Early maturity reduced quality.

Over the past 10 to 15 years, dairymen have purchased sound breeding stock. This has resulted in several herds of quality registered Holstein cows. Two home bred cows were classified "Excellent", a first on Cape Breton Island. This area now features young, enthusiastic farmers showing confidence in the future.

### Commodities - Organizations - Programs

For the second year in a row dairymen increased their fluid quotas. Some farms changed ownership as going concerns. Improvements continue on land, forages, buildings and the introduction of new technology.

There is interest in finishing and marketing beef locally. Some major expansions and improvements have resulted through the AFDA-CFD program. We now have seven producers with purebred herds. Still most calves go through the Feeder Sales in Truro. This commodity is expected to remain stable.

There are only 23 sheep producers left in the area. Despite trying all types of predator controls, the coyote is winning. No new inquiries regarding sheep production were received in 1989.

The fur industry is going through very difficult times. Several have pelted out, others reduced numbers of breeders.

There is some excellent breeding stock in the area. Those remaining have confidence that the market will come back in a few years.

Inverness grew over 200 acres of grain, mostly barley with good yields. More farmers are switching to haylage, from hay. Several projects related to crop production, storages, trials, and species, were addressed in 1989.

Cash crops are being established, though slowly, with strawberries, raspberries, turnip and potato production for local markets. Maple producers had a good year and may do some expansion. Blueberry acreage is still small.

The Federation of Agriculture is active and represents the farmers, sponsoring educational meetings. The Soils and Crops Association continues to struggle, but have started some good projects.

The County Exhibition was a tremendous success, but they are now facing the possibility of construction of new facilities.

Farmers are concerned about Free Trade and GST. Future decision will have to be made on economics alone. In summary, a good year financially with the exception of the fur industry.

Cape Breton - Richmond

Overview

Very few changes in the agricultural industry in this area during 1989. The variable weather pattern affected some crops; increased interest in forage management and storages, and greenhouse crops. An excellent working arrangement exists with Enterprise Cape Breton. Use is made of the facilities and the services of the Forage Specialist. The exhibition had a good year, taxing facilities to the limit. Future emphasis will feature 'agricultural awareness'.

Commodities - Organizations - Programs

Commodities such as dairy, poultry, beef and sheep experienced little change during 1989. Thirteen projects under the ALFI program were approved, mostly for the construction of silos. Approximately 100 head of cattle and two sheep flocks are grazed on the Mira Community Pasture with good weight gains.

Vegetables experienced some problems due to weather, however, crop yields were good. The three or four farmers markets require more produce.

Small fruits and tree fruits did not fare well. The greenhouse sector expanded this year in ornamentals, bedding plants and vegetables. This sector has potential for growth.

Depressed prices has put the fur industry on hold.

More farmers are changing over to silage or haylage as a means of controlling the weather and improving feed quality. Grain acreage was up in 1989.

The area Plowing Match was the most successful to-date with a good number of entrants.

The five community fairs were well received. In general the exhibits were superior to those at the county exhibition.

The Stirling Garden Project featuring a 4.5 acre plot of vegetables in a non-rural area, met with mixed results. More thought has to go into such projects.

Staff continued to work with the County Federation and Richmond County Agricultural Association on programs, information meetings and other projects.

The Cape Breton county office continues to function using the team approach.

## CENTRAL REGION

### Colchester County

#### Overview

Agriculture in the county continued to diversify. In the past year more young second generation farmers have come into the system. They are receptive to changes and modernization. It was an average year weatherwise. The hay crop was about two weeks early in maturity so quality was lower. A considerable number of upright silos were constructed. A survey of 75 dairy farms had 58 putting up haylage. Many smaller operators have changed due to a good custom silo filling service now available.

#### Commodities - Organizations - Programs

The main commodity is still dairy, where the emphasis is on improving crops, feeding programs, storages and modernization. Each year a few more sells their cows and quota and go to another commodity. Quota prices are preventing farms from selling as going concerns.

Interest in cash crops are promoting better rotations on farms, such as grain, carrots, forages. Milling wheat acreage again declined due to prices. Carrot acreage is increasing due to markets opened up by Oxford Frozen Foods. This area has potential.

Most beef producers are small and part-time.

Considerable interest in the Comprehensive Farm Development section of the AFDA program. Producers must be realistic in planning for the future.

Fur producers experienced another year of low prices. Many are discouraged, reducing numbers or leaving the industry. The more optimistic are delaying expansion and concentrating on improved quality.

Expansion continues in the greenhouse sector, featuring bedding and landscaping plants.

Many of the programs carried out are done in cooperation with the Federation of Agriculture and Soils and Crops organizations. Colchester still has three active district federations. They are involved in community awareness projects, hiring students to conduct soil testing, mapping farms, locating and identifying noxious weeds, etc.

The Colchester-East Hants -Halifax Soil and Crop Improvement Association changed their name to Central Nova. They continue to sponsor crop trials, tours and information meetings.

Poultry, swine, strawberry, blueberry, sheep, honey and maple add to the diversity of commodities produced.

## Cumberland County

### Overview

Fairly good year for crop production despite production declines in maple, strawberries, blueberries. Growing season was early causing hay to mature. The dry summer reduced the blueberry crop; but late fall rains increased carrot yields. Farmers continue to make improvements to land base such as drainage, limestone, improved varieties of forages, grains, etc.

### Commodities - Organizations - Programs

Forage yields were up on first cut hay but quality was down. Hot summer weather reduced second crops. County is self-sufficient and sells a considerable tonnage outside of county.

Grain yields were above average. Considerable improvements in cultural and management practices. 170 acres of soybeans were grown in 1989.

Due to dry summer, blueberry production was just below the five year average of 17 million pounds. Initial prices were good.

Maple production amounted to 12,630 gallons, down slightly due to unfavourable sap flowing conditions.

Strawberry acreage continues to decline due to over production, causing narrow profit margins.

Carrot tonnage was up on most farms. Livestock farmers continue to look at ways to use cull carrots.

Eventhough some dairy farmers left the industry, fluid quota did not decline in the county. Four farmers became fluid producers

through graduated entry.

Hog marketing increased slightly to 9,083 head. However, on a five year average, production is down about 13%. The producers remaining have well managed operations.

Beef and sheep numbers remained stable despite marginal returns. Coyote kills were 86 sheep in 1989 compared to 215 in 1988.

The fur sector is small, however, several fox producers pelted out due to low returns, others reduced their breeding herds.

The County Federation of Agriculture sponsored relief dances for two families who lost their barns. The farm I.D. membership drive is moving slowly. The Angus family with their outstanding Ayrshire herd were awarded the "Farm of the Year Award".

The Soils and Crops Improvement Association annual meeting focused on technology transfer and use of round balers. They sponsored a twilight tour, pasture evaluation trials and soybean trials. They also make use of the ALFI program to conduct other projects.

Special projects completed were native pasture demonstration, soil sampling, shakerator evaluation and exhibition coyote display.

Pictou County

Overview

The weather played a noticeable role in crop production this past year. It was conducive to spring field work, high first crop forage yields, excellent grain yields and good strawberry and raspberry crops. It was detrimental to maple yields, first crop forage quality, blueberry and vegetable yields. 1989 saw several positive advances in the industry. Several farmers changed over to silage systems to improve feed quality, drainage work was up and more cattle are on the Heard Health program which features preventive medicine.

Commodities - Organizations - Programs

Dairying is still the dominant commodity, eventhough a few more each year continue to sell their cows and quotas.

The beef sector is stable in spite of small margins. Again there is considerable interest in the AFDA Comprehensive Farm Development Program. The prospect of revitalizing and increasing the cow-calf sector looks encouraging.

The sheep producers had a depressing year. Prices were down and the coyote problem did not go away.

The hog, poultry and fur sectors remained stable. Strawberry producers had a good year. The market is up to full potential. Lowbush blueberries yielded about average overall with good prices.

Vegetables fared well despite weather, but maple production was down considerably. Forage yields were high, quality was down and much of the second crop was pastured. The grain crop was good with above average yields.

The County Federation of Agriculture did the best job of recruiting members in N.S. They sponsored a plowing match with an excellent turnout.

The Exhibition shortened their program but still had a profitable year due to the good weather. They continue to make additions and improvement.

The Pictou County Cattle Producers Association held three information meetings and are looking at new initiatives and direction.

The Soils and Crops Improvement Association sponsored a tour, twilight meeting and plot demonstrations.

The Northumberland Lamb Producers Association was involved in sheep promotion and the coyote problem.

**Halifax-East Hants-South Colchester Counties**

**Overview**

With the many excellent young farm operators in this county we are optimistic and excited about the new challenges that lie ahead. Even with a mood of uncertainty in the industry, the dairy sector is very strong in this area of the province. Margins continue to tighten. Farm computers are being introduced to improve the decision making process. The area features very active farm and producer organizations.

**Commodities-Organizations-Programs**

The dairy sector increased cow numbers and quota during the past year. New harvesting and storage systems have been introduced. Producers continue to improve production and management skills.

There has been increased activity in the beef sector, mainly through the Comprehensive Farm Plan program.

Sheep numbers are steady and coyote kills are down.

Hog producers and numbers continue to decline mainly due to lower returns.

Interest in Chinchilla ranching is growing, whereas fox and mink producers are reducing numbers due to market conditions.

The poultry sector is small but stable.

Blueberry yields were average with a modest increase in development. this area did not experience the drought conditions prevalent throughout the province.

The strawberry crop was heavy and early. Additional interest in U-Pick. Increased interest in tomatoes and cucumbers. No change in cole crop acreage, use of irrigation. Expected expansion of the endive crop has not occurred.

Sod production continues to expand as demand increases. Good market for a quality produc

Quality forage production is being encouraged. Excellent first crop in 1989. Corn acreage continues to decline as crops more suitable to area are sought.

A soil sampling service was sponsored by the Federation of Agriculture on over 20 farms. The summer employment project had 49 participants, the Central Nova Plowing Match had 15 entrants, and 20 took part in the Hoof Trimming Clinic.

The Federation also sponsored a farm health and safety quiz with 16 teams, a tractor driving and safety workshop, and meeting on Workers' Compensation.

The Halifax County Exhibition enjoyed another successful year and two new weed inspectors were appointed for the year.

## WESTERN REGION

### Annapolis County

#### Overview

Overall, 1989 was a good year in Annapolis County in that there were no farm losses. Sons became involved in their family operations in some cases. Forage and cereal yields were evident in a good growing year, but forage quality was disappointing.

#### Commodities-Organizations-Programs:

Dairy farming is still the backbone of agriculture in the county. During 1989, fluid shipper numbers were maintained and extra fluid and MSQ quota were added.

There were indications of dissatisfaction in the present "forage systems" or lack of same. More farmers are going to silage and round bale systems, hopefully, to get better quality and reduce labour.

A.I. is not an issue anymore, producers are satisfied with the services provided from NSAB and CIAQ. There are still some issues to be solved regarding veterinary service.

The county has the potential to be a major force in the beef sector with its land base and climate. Margins are tight. The AFDA-CFD program is helping some farmers at present. Increased profits must come from improved quality, grains, and good forage.

The local sale has potential but needs more and better cattle to attract the buyers.

Hog producers had a fair year but are not looking forward to 1990.

Fur is not a major industry. Expansion to-date has been modest.

People jumping in and out of certain vegetable crops make it hard on the established producer. Annapolis has its early potatoes, cole crops, strawberries and apples, but very little expansion is taking place. Markets and price are a major constraint.

Expansion is taking place in sod production, bedding plants, ornamentals and greenhouse crops.

1989 was a trying year for Scotia Hay Co-op. Markets are being investigated. The sky is the limit for a quality product.

Assistance programs are promoted and used where benefits can be realized. Drainage is replacing land clearings. ALFI and AFDA are being used wisely to facilitate expansion and improvement.

The Federation is active and along with the Western Annapolis Valley Cattlemen's Association and Soils and Crops Association sponsors programs, tours, trials and other events of interest.

The Farm Women's Day attracted over 70 participants and its popularity has spread throughout N.S.

The Annapolis Valley Exhibition is going through a major overhaul.

Overall a fairly good year, but many questions as we head into the '90's.

## Hants County

### Overview

Hants county experienced a cropping year similar to other areas of the province. The forage crops came on early, with silage made in late May. Commodities such as dairy, beef, poultry, sheep, hog, vegetables, blueberries and orchard make for a very diversified agricultural base.

Local concerns such as land zoning, environmental concerns and farm safety are being addressed.

### Commodities-Organizations-Programs

The dairy industry is still quite stable, only losing a producer or two. The concentration is on forage quality.

There is renewed interest in beef production as many farmers are making use of the AFDA-CFD program to up-date and expand their enterprises.

The goat commodity suffered severe setbacks due to marketing difficulties.

Like other area of the province, sheep producers had problems with coyotes.

Hog and fur producers received low prices for their products in the past year.

The blueberry crop was 70-80% of the 1988 crop. Rainbow Farms installed a new cleaning system which cleans 6 - 8,000 lbs/hour compared to the traditional method that does 3 - 400 lbs.

The Soils and Crops tour to Inverness County was a great success. This group conducted other tours, projects and trials. The Forage Day attracted 47 farmers.

Crop yields were good with no major harvesting problems.

Three local Federation of Agriculture meetings were held throughout the county to increase communications between the directors and members.

The Hants County Exhibition had a good attendance, but the beef and dairy shows may need an overhaul. The Federation, Soils and Crops and Weed Booth at the exhibition was a great success.

The open fall allowed all fall plowing to be completed.

## Kings County

### Overview

The year 1989 was an excellent growing year for most crops. Corn, both grain and silage was the best in many years. High forage yields and good pastures were a feature. The apple crop had an off year with volume down 40-50% from 1988 highs.

Farmers were cautious about making capital expenses and this reflected in the use of assistance programs. Many farmers are now considering removing their older apple trees.

### Commodities-Organizations-Programs

Very little change or expansion in the dairy sector. Many are still adding some extra quota.

Beef numbers are steady with more interest in feedlots. Kings has the climate to grow crops to finish cattle. The margin of profit is very tight.

Approximately 147,500 of the 245,520 hogs marketed in N.S. came from Kings. With the low prices some producers are staying afloat, others are experiencing difficulties.

The poultry industry is still the major producer of gross farm income in the county. Eggs, broilers and turkey remained fairly stable. All are worried about the pressures on supply management.

Apple producers experienced a low yield (2.3 million bushels) and for the fifth year in a row, growing crops with prices below the cost of production.

Consumption across America dropped 20% due to the Alar and chemical misinformation - juice apples reached an all-time low of 2.8 cents a pound in mid-November. There is much apathy in the industry.

Strawberry acreage was down but yields and prices improved. Nursery plant sales were also down in 1989.

Cranberries did well and received excellent prices.

It was a fairly good honey year with increased prices.

Kings produces about 75% of Nova Scotia vegetables. Early potato producers had a good year. The vegetable and cole crop commodities are expanding and diversifying, as new markets are found.

Hay and cereal crops were very good with excellent harvesting weather.

A localized rain and hail st orm destroyed tobacco and apple crops in Upper Dyke and Canard.

All producer organizations, the Federation of Agriculture, Fruit Growers, Soils and Crops Association were all very active through meetings, tours and information meetings. Once again, the county experienced a very active year.

Lunenburg-Queens

Overview

The past year has been a good year for agricultural production on the South Shore. Above average heat units and excellent growing weather produced a large first crop of forage with reduced quality.

The warm summer reduced pasture growth and second crops of hay.

Farmers are less optimistic, but still continue to make capital improvements. New concerns such as the environment and related problems are being addressed.

Transportation remains a problem, along with skilled farm labour. Coastal farm lands are being purchased by developers.

After many years of trying, a County Weed Inspector was appointed.

Free trade, the GST, and other issues causes some to be pessimistic, but they strive to be more efficient and market conscious.

Commodities-Organizations-Programs:

The area maintained their fluid and cream shipper numbers. Extra milk quota has been added during the year. The industry is strong and the backbone of agriculture in the area.

Poultry and egg production continues strong and viable because of supply management.

The South Shore has many small beef herds. Prices fluctuate, and were down this fall. Many are making use of the AFDA-CFD programs to modernize and expand.

The hog industry has an air of "pessimism" as prices remain low. Producers are becoming more efficient.

There is some renewed interest in sheep, but they also have a coyote problem. Also, some interest in milking goats, but this has cooled until the markets become available.

Greenhouse and horticultural crops is an important and viable industry in this area. Farmer and roadside markets are expanding. Good quality and increased sales produced an excellent year.

Fruit and berry crops were stable.

The fur industry is small, but again prices are depressed.

The Lunenburg and Queens Counties Federation of Agriculture carry on active programs, but need more farmers to get involved.

Farmers made considerable use of assistance programs.

## Yarmouth-Shelburne County

### Overview:

This has been a year of change in Yarmouth. Dairy farming continues to lose producers as quotas are being sold. There are about 12 fluid producers left in the area; good sized herds with high production.

### Commodities-Organizations-Programs

The mink and fox industry has gone through another very rough year. Some will pelt out and others reduce numbers and concentrate on quality.

Interest in landscape gardening, bedding plants, ornamentals and greenhouse crops are being explored and expanded upon.

Vegetable, small fruit and tree fruit crops are being produced for local and tourist consumption.

The blueberry industry, though still small, is growing.

The County Federation is very active, representing the needs of all farmers and promoting educational programs.

Assistance programs are being promoted and used as needed. Considerable interest in the AFDA-CFD program for small farmers.

One major change was the retirement of Mac Fuller, Agricultural Representative, following almost 35 years with the N.S. Dept. of Agriculture and Marketing. Everyone wishes Mac good health and best wishes with his new endeavours.

## Digby County

### Overview

Low commodity prices have severely affected the two major agricultural commodities in Digby County - fur and hogs.

### Commodities-Organizations-Programs

As the county with the second largest swine population in N.S., Digby has only six good sized producers left. Due to current low prices producers find themselves going further behind as costs outweigh returns.

Mink production is the largest sector in the county. Prices received for pelts in 1989 were well below cost off production, caused by the tremendous buildup of production in Scandinavia. Present prospects are, or will cause many producers to reduce numbers or pelt out.

The fox industry is also falling on hard times. Over 60 percent of the ranchers have pelted out. The rest are reducing numbers and keeping quality breeders.

Beef numbers are down and farm herds are small in numbers. Future production is limited.

Prices for locally grown vegetables and small fruit is influenced by produce coming in from other areas of N.S.

The remaining two highbush blueberry plantations were wiped out by weather damage a few years ago.

The County Federation of Agriculture, mink producers and other farm organizations continue to sponsor farm meetings, tours and programs.

## SPECIAL PROJECTS 1989

### NOVA SCOTIA FARM AND COUNTRY VACATIONS PROGRAM

Again in 1989, this program enjoyed a successful year. The Farm vacation Guide listed 83 homes providing 268 beds throughout the province. They attracted 15,666 guests for 17,634 guest days, down 39 guests from 1888. Most of the guests arrived during July and August (59.4%), and 48.6% came from the United States and 46.7% from Canada.

A new "Code of Standards" and "Inspection Check List" were developed and used during the year, resulting in a upgrading of standards and more awareness on the part of operators. This

program is in very good shape generally with good potential.

The 1990 Farm Vacation Guide lists 87 host homes and 40,000 copies will be published.

## Special Projects

Along with his Farm and Country Vacation duties one Special Projects Officer uses the Richmond County Agricultural Association to promote educational meetings, short courses and projects in his area. He also is involved in general counseling and assistance, the Agriculture Manpower Committee, and deals with general calls related to agriculture in his area.

## The Bridgewater Woodland Gardens

During the past year the Board of Directors have endeavoured to lay a firm foundation for this large undertaking and begin a process of development. The objective is to develop a national class set of gardens on a superb 25 acre site formerly called the 'town park'. The first phase of development on a four acre site is a beautiful theme garden. Projected costs will be around one half million dollars for this first effort. A five year budget and design plan has been prepared and ensuring adequate financing is now the main thrust.

## Nova Scotia World Food Day Committee

World Food Day, October 16, was designated by the FAO of the U.N. as a time when member countries would focus attention on food issues.

The N.S. committee has a membership of 18 organizations covering a broad base. The education sub-committee produced 750 information kits for schools, churches, and community groups. Efforts are to strengthen the member base and develop awareness. Guest speakers of international stature have been brought in to address such topics as food safety, etc. In future, all sides of the food issue will be addressed, making everyone more aware of the total world situation.

## The Exhibition Sub-Committee

This committee evaluates each of the province's 15 exhibitions on an annual basis. A detailed report is sent back to each exhibition Board of Directors and a visual presentation is made to the N.S. Exhibition Association Annual Meeting.

One of the main concerns is Agricultural Awareness. There is a present lack of educational displays which interpret farming and its importance to society. Considerable thought and planning must go into these displays inorder to accurately portray the industry.

## Other Projects:

The new Sheep Home Study Course has been initiated following funding through AFDA. A revised and up-dated course with graphics and illustrations, supplemented with three video segments, should be ready for release in September 1990.

Considerable amount of time spent with home gardeners. Courses included Principles of Garden Design, Tree Fruit Production, Enjoying Your Home Vegetable Garden and the Home Greenhouse.

## Young Farmers' Conference - 1990:

The Nova Scotia Young Farmers Conference, held in Bridgewater was highly rated by the participants. Forty-six young farmers from Queens County to Antigonish County attended the 2 1/2 day program. The Conference theme "Farming in the 21st Century" emphasized the continuation of sustainable agriculture practices. Keynote speakers included Dr. Claude Caldwell, Head of the Plant Science Department, N.S.A.C. and Dr. Peter Sachenbracker, Agriculture Canada, Ottawa. They did an excellent job of addressing the topic of sustainable agriculture and food safety, respectively.

Other speakers elaborated on various examples of responsible farming practices as well as changes and challenges in Agriculture and Forestry.

The opportunity to tour local farms and businesses was a highlight. Tours included Oak Lake Farm and farm market. Nova Wood Craft Ltd., Krispi Kraut Plant, Snyders Shipyard, and Tom Van Milligan's swine farm.

This annual conference provides an excellent opportunity for "young farmers/farm couples" to discuss current issues/concerns, meet their fellow producers and to have a break away from routine.

In reviewing the evaluation forms - all participants enjoyed the conference tremendously. Maybe you should consider going next year.

## Nova Scotia Farm Health and Safety Committee

## Annual Report

During the year 1989 the Nova Scotia Farm Safety Committee changed its name to more accurately represent its broad concerns about health and safety on the farm.

The Committee met four times during the year to initiate and encourage health and safety projects and discuss issues and

concerns. Our mandate continues to be "taking leadership in promoting health and safety in the farm community".

**Activities:**

The farm tractor safety video "Horsepower" was officially released in January and copies were distributed to all Agricultural Offices in the province as well as the N.S.A.C., other Maritime Safety Committees, your Federation and the W.I.N.S. It is difficult to determine how many people have watched the video but an estimate of 600 plus is likely reasonable.

The Committee cooperated with the W.I.N.S and the Department of Labour, Occupational Health and Safety Division, in supporting the Farm Health and Safty quiz; forty teams participated with almost all counties involved. The three top teams represented 4-H, W.I. and the Federation.

Farm safety articles were prepared and included in each issue of the quarterly Extension Newsletter to farmers and 4-H members.

The Safety Display Booth was used 10 times during the year for exhibitions, mall displays, the Atlantic Farm Mechanization Show (Moncton), the Farm Women's Conference and other events. The theme of tractor safety was featured again. Plans are currently being finalized to develop a new booth display featuring Pesticide Storage and Use.

National Farm Safety Week takes place each year from July 25 - 31. The theme for 1989 was "Children on the Farm - Keep Them Safe". Two radio broadcasts were prepared as wel as press releases. Safety kits were distributed to all Agricultural offices and Norma Mosher provided kits to all who attended the W.I.N.S. conference.

The Farm Safety Awards program initiated last year was continued and six nominations were received. Mr. David Miller, Merigomish, Pictou County, was selected as the individual award winner while the Halifax-East Hants Federation of Agriculture was chosen as the organization winner. The awards will be presented at the NSFA banquet.

The Committee were very pleased with the addition of safety items to the Provincial Capital Grants policy for 1989-90. Eighty-six applications have been approved and the Committee hopes that this financial assistance will reduce the number and severity of farm accidents.

Russ MacIntosh and Bob Priske of the Occupational Health and Safety Division, Department of Labour, have conducted safety audits on several farms in Kings and East Hants: response has been positive and in some cases farmers have requested a second visit.

The Committee met with Kathryn Porter of the Nova Scotia Clean Society - to discuss one area of mutual concern - reducing the risks of skin cancer through sun protection. Since farmers and others who work out of doors can be 'high risks' it is hoped that a joint program of Sun Protection can be developed for the fall and winter of 1990-91.

Our library of safety films and videos continue to develop. Safety literature and brochures are used with Safety Booth and other displays.

Accidents Reported:

Agricultural Representatives across the province report farm accidents in their county or area to our Committee. For the 11 month period ending November 30, 1989 a total of 37 were reported; four involved children and young people and there were 5 fatalities.

| | |
|---|---|
| Tractor related | - 8 rollovers (including 3 fatalities) |
| | - 3 runovers (including 1 fatality) |
| | - 1 P.T.O. |
| | - 7 others (including 1 fatality) |
| Other Equipment | - 1 |
| Fires | - 3 |
| Pesticides & other Chemical uses | - 2 |
| Livestock | - 3 |
| Miscellaneous | - 9 |
| Total | -37 total 5 fatalities |

The Workers Compensation Board statistics for the period ending December 1, 1989 are also quite revealing.

| Category | # of farms Paying assessments | # of accidents reported |
|---|---|---|
| IRC 649 pigs & poultry | 66 | 60 |
| IRC 655 fur farming | 27 | 8 |
| IRC 710 general farming | 428 | 243 |
| Total | 521 | 311 |

The loss of five lives during the year in tractor related accidents is of great concern to our committee. More effective awareness campaigns need to be put in place to make tractor operators realize the improtance of safe driving and use of R.O.P.S.

The safe disposal of old, unwanted pesticides and other chemicals is another area of concern: there seems to be no system in place to look after such materials.

## APPRECIATION

On behalf of the Committee thanks is extended to those individual organizations and businesses who have supported our activities and programs throughout the past year.

A special "vote of thanks' goes to Jack Redden, recently appointed Director of Livestock Services", who served as Secretary of the Committee for the past three years.

During the year three new Committee members were appointed: Kevin Sibley, N.S.A.C. (replacing Finbar Desir) and from the N.S.F.A., Linda Grant and Eric Fisher. Our new Secretary is Elizabeth Crouse, 4-H Supervisor.

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Programs and Policies:

A considerable amount of time is spent by the Extension Branch in creating awareness and servicing all programs and policies offered to the N.S. Dept. of Agriculture and Marketing.

As the front line workers, the Agricultural Representatives are responsible for promoting, explaining and determining the eligibility of the applicants for all policies. Other specialists such as the engineers and farm management officers make considerable impact into these projects.

The ALFI and AFDA (Canada/N.S.) agreements have added to this workload during the past few years.

The major policies include the Soil and Water Management Program, Provincial Capital Grants, Limestone, ALFI and AFDA. The Technology Acceleration program under AFDA has been very well received by the industry. The Comprehensive Farm Development sections of this program has accepted over 400 farm development plans to-date.

A new manure Storage Policy was introduced in 1989.

Nova Scotia Department of Agriculture and Marketing

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# Annual Report

## 1989

## FARM MANAGEMENT

## INTRODUCTION

This report summarizes the activities of the Farm Management Division of the Extension Services Branch of the Nova Scotia Department of Agriculture and Marketing for the 1989 calendar year.

The main objective of the Farm Management Division is to assist Nova Scotia farmers, farm leaders, and Nova Scotia Department of Agriculture and Marketing staff in developing their business management knowledge and skills.

This broad objective was pursued in 1989 via a series of four more specific goals. These goals may be expressed as follows:

(1) To provide a high quality individual farm management counseling service to Nova Scotia farmers, where needed. This counseling service, utilizing the Farm Management Specialist's knowledge of business management and production agriculture, is not readily available from the private sector.

(2) To provide formal training activities (courses, meetings, conferences) in the area of farm business management, in order to enhance the skills of Nova Scotia farm managers.

(3) To provide a base of economic data relative to Nova Scotia farm businesses. This will include business summaries prepared in conjunction with individual farm analyses. This economic data is to be used by farmers, agri-business, government decision makers, extension workers, and others.

(4) To provide economic and farm management expertise to various organizations, committees, etc., as needed.

The activities of the Division will be reviewed by looking at each of these four goals. It is appropriate, however, before looking at these program activities, to introduce Farm Management's most valuable resource - it's human resource.

Gabriel Comeau, Supervisor of the Farm Management Division since 1985, left the Division to assume the duties of Secretary-Manager of the Dairy Commision in June 1989. Debbie Freeman, Farm Management Technician, resigned in April 1989 to return to University on a full-time basis. Debbie was replaced by Ronda Bellefontaine, as the Technician for the Truro office.

As of December 31, 1989 the staff of the Farm Management Division was as follows:

| | | |
|---|---|---|
| | Supervisor | Truro Office |
| Peter Dekker | Senior Farm Management Specialist | Kentville Office Western Nova Scotia |
| Jim Houghton | Farm Management Specialist | Truro Office Central Nova Scotia |
| Alan Grant | Farm Management Specialist | Truro Office Eastern Nova Scotia |
| Ronda Bellefontaine | Farm Management Technician | Truro Office |
| Pam Fraser | Farm Management Technician | Kentville Office |
| Tracey Mitchell | Secretary | Truro Office |

These individuals were responsible for the activities which are summarized in the next sessions.

## FARMER COUNSELING

In 1989, as in previous years, individual counseling of farm clients remained a very high priority activity with the Farm Management Division. Table 1 provides a statistical summary of this particular activity in 1989.

**Table 1**
**Farm Management Counseling Activity - 1989**

| Item | Farm & Office Calls | Budgets Prepared |
|---|---|---|
| Record System & Analysis | 229 | 4 |
| Pre-Loan Counseling | 146 | 85 |
| Financial Management & Credit Analysis | 128 | 49 |
| Business Agreements & Tax Management | 146 | 8 |
| General Farm Management | 151 | 26 |
| Total | 800 | 172 |

It should be noted that, of the 800 clients who had a direct contact with Farm Management staff, 250 were referred to the staff by other professionals - Agricultural Representatives, Farm Loan Board staff, banks, the accounting and legal profession, and others.

Due to the importance placed on individual counseling, and the resources allocated to this activity (professional time, travel, telephone, clerical support, etc.), each of the main activities will be highlighted.

(1) Record System and Analysis

The largest category of client calls (29%) dealt with record systems and records analysis. This is a recognition of the fact that a good record keeping system is the basis for sound management decisions. Record keeping in general has improved considerably on Nova Scotia farms during the last few years.

There is still some room for improvement in these areas. Efforts spent in this area will provide some long term benefits to that farm operation.

A good record keeping system is the first step. It is most beneficial, however, when the records are analyzed, and the analysis used as a basis for management decisions. This is another high priority area.

The majority of the record analysis is for dairy and swine farms whose records are analyzed as part of a formal project. In some cases, it would involve a farm or office visit to assist the farmer in interpreting the analysis. Many of the participants in these studies, however, are comfortable with this analysis, and a farm call may not be needed.

(2) Pre-Loan Counseling

The Farm Management staff continues to be involved with a large number of clients requiring pre-loan counseling. More than half of the cases involve the preparation of a budget. This is usually a cashflow projection.

Many of these clients are referred to Farm Management Staff by the field staff of the Nova Scotia Farm Loan Board.

(3) Financial Management and Credit Analysis

The area of financial management and credit analysis is another high priority with the Farm Management staff.

Efforts expended in this area are considered to have long term benefits. It's an area that involves a large part of the Division`s course work, but there is also a need for one on one contact in this area, especially where a problem exists at the present time.

(4) Business Agreements and Tax Management

Although the sole proprietorship is still the most popular form of business structure utilized by Nova Scotia farmers, the number of farm partnerships and family-owned corporations is steadily increasing. As the size and complexity of our farm organizations continue to grow, this trend is expected to continue.

The Farm Management staff have developed quite a bit of expertise in the area of business agreements as they apply to farm businesses. The role of the staff is primarily to advise farmers regarding the advisability of changing from one form of business agreement to another.

Where a change is taking place, members of the accounting and legal professions will normally be involved. The Farm Management Specialist will usually be involved at the beginning, where his knowledge of production agriculture, marketing, etc. make the specialist a valuable source of information. This is another case where a good working relationship between the Farm Management Specialist, the lawyer, and the accountant will benefit all the professionals and the farmer client.

Income tax can be viewed as another farm expense. Unlike most other expenses, however, the amount of income tax payable is determined by an increasingly complex set of regulations. The Farm Management Division has developed some expertise in this area. Knowledge of tax laws is essential, for example, when evaluating two or more investment alternatives. Changes to the tax laws in 1989 resulted in some training activities, for farmers and staff.

The Division activities in this area are not in competition with, but complimentary, to the activities of those involved in the accounting profession.

(5) General Farm Management

Nineteen percent of client calls did not fall into any of the above categories; they have been classed as "general farm management". Many of these calls do not involve a referral, but are more likely to involve a client with whom the Farm Management Specialist has developed a good working relationship, over a period of time. The farmer may utilize the specialist to discuss production plans, etc. with a knowledgeable but unbiased advisor. This is most satisfying to the Farm Management staff.

## FORMAL TRAINING

In the previous section, the extent and the nature of individual contacts between Farm Management staff and farm clients have been discussed. A second major activity of the Division is in the area of formal training. This refers to group training activities, where information is relayed from the Farm Management staff to a group of clients, primarily farmers. Some of these courses, a small proportion, are directed at fellow staff members, in order to enable them to better serve the farm clientele. Table 2 provides some statistical information on formal training activities for 1989.

**Table 2**
**Formal Training Activities - 1989**

| Item | # Courses Given |
|---|---|
| Record System & Analysis | 19 |
| Business Agreements & Tax Management | 7 |
| Financial Management & Credit Analysis | 18 |
| General Farm Management | 16 |
| Total | 60 |

A "course" is defined as one separate meeting where instruction is provided. It may be part of another (non farm management) course, a component in a multiple-session farm management course, or a separate, one session meeting. A total of 927 people attended the 60 training sessions offered by Farm Management staff in 1989.

The purpose of this segment of the total program is to improve the farm management skills of Nova Scotia farmers. Its benefits will be felt over the long term, in helping clients avoid mistakes which might be made if they did not have this training.

The actual delivery of these courses is only one part of the effort. The preparation phase utilizes a lot of resources - staff time (including technical and clerical), printing materials, etc. The benefits of this training activity are difficult to quantify. Many of today's leading farmers, however, did benefit from similar training fifteen to twenty years ago.

## MANAGEMENT INFORMATION PROGRAMS

It was mentioned earlier that the making of sound management decisions requires the availability of good information. Over the years, one of the important activities of the Farm Management Division has been to collect, analyze, publish, and distribute economic data. Primarily, the type of information that is collected deals with costs and returns for various agricultural production activities.

In 1989, a variety of projects of this type were continued. The continuity of these various projects is very important, because it allows the plotting of trends, changes, etc. in the various agricultural sectors. All of these projects resulted in the preparation of a publication. A listing and brief description of these publications will provide the reader with a better understanding of the scope of these management information programs.

### (1) Nova Scotia Dairy Farm Business Summary

One hundred and twenty (120) Nova Scotia dairy producers provided their business information for inclusion in this summary. In return for the use of their information, we supplied each producer with a business analysis of his individual operation.

This publication has proven to be a leading source of management information on the Nova Scotia Dairy Industry. In 1989, some 700 copies of this publication were produced and distributed.

### (2) Dairy Farm Business Summary - 5 Year Summary

The main purpose of this publication is to show trends that are taking place in the dairy industry over time. In particular, such factors as herd size, returns from milk, cost components and production coefficients are noted.

### (3) Borrowed Capital Limits - Dairy

This publication attempts to set out a framework that can be used to estimate the amount of borrowed capital which can be repaid at various production and price levels, on a per cow basis. The Dairy Farm Business Summary provides the basic data for this publication.

As might be expected, as production increases, a greater number of dollars can be borrowed and repaid. This publication has proven to be an excellent guide in counseling work with farmers and, in addition, has been used extensively by Farm Loan Board personnel.

(4) Nova Scotia Swine Farm Business Summary - Farrow to Finish

In 1989, sixteen (16) farrow to finish swine operators provided their business information for inclusion in this summary. In return for the use of their information, each producer was supplied with a business analysis of his individual operation.

The publication has proven to be quite useful for this industry. Some 250 copies were produced and distributed to various interested parties, including swine producers.

(5) Nova Scotia Swine Farm Business Summary - Sow Weanling

In 1989, with the assistance and support of the Pork Producers, a summary based on costs incurred by those farmers who produced weanlings was prepared. The summary was the result of

the average of five (5) weanling producers in the Province. Each co-operating farmer received an in-depth analysis of his own individual business.

(6) Nova Scotia Swine Farm Business Summary - Finishing

In 1989, with the assistance of Pork Producers, a farm business summary for hog finishing units was prepared. A total of ten (10) producers co-operated by sharing their financial and physical information. In addition to the business summary, each of the co-operating producers received an individual business analysis of his finishing operation.

(7) Fall Feeder Sale Statistics

This publication is an update of a similar one that has been prepared for the past number of years. Essentially, the publication attempts to outline the prices received, the number of cattle and the quality of cattle offered for sale at the Feeder Cattle Sale held in Truro. In addition to 1989 information, data from previous sales is included for comparison purposes.

(8) Farm Management Manual

During 1989 various fact sheets were prepared for our Farm Management Manual. The manuals are used by Agricultural Representatives, and Farm Management staff. Farm Management personnel from outside Nova Scotia have requested a number of copies of this material.

## OTHER ACTIVITIES

In addition to the main activities mentioned earlier, which are the cornerstones of the Farm Management program, several other activities are also important. These are discussed briefly.

(1) Farm Record Systems

The importance of farm record systems cannot be overemphasized. Promoting the adoption of good record keeping systems is always important. The Farm Management Division, in addition to giving short courses on this topic, acts as a distribution center for two (2) different manual record books - The Farm Account Book, a single entry system for small or part-time farmers; and the Manitoba Farm Account Book. In 1989, approximately 400 copies of these farm account books were distributed, either directly to farmers or indirectly through County Agricultural Offices.

The Farm Management Division is also heavily involved with CanFarm - a computerized farm accounting system.

The Farm Management Division is the main Contact Agency for CanFarm in Nova Scotia. This role involves working closely with the farm clients to ensure that the data is entered properly and the reports are clearly understood. These activities dovetail quite nicely with the other activities of the Farm Management Division.

The long-term goal of the Division, however, is to transfer these clients to private sector Contact Agencies. The latter will be in a better position to provide a full service to the clientele, including preparation of the farm income tax return. Three (3) accounting firms in Nova Scotia presently have Contact Agency status.

In 1989, 99 farms were using the CanFarm system, with the Nova Scotia Department of Agriculture and Marketing as Contact Agent. This is a decrease from 107 farms in 1988, as clients are transferred to other agencies, or adopt alternative accounting systems.

One of the reasons for the popularity of the CanFarm system over the years has been the CanFarm Recorder Technician Service. This service, the result of an assistance policy of government, provides for a sharing of the cost of a Recorder Technician. The technician visits the farm and records the financial and production data in a standard, prescribed manner and mails the information to the computer center for processing. The result of this service is up-to-date information for the

farmer and an excellent source of cost study information for Farm Management staff. The Recorder Technician Service has been successful over the years, as evidenced by the rate of utilization of farm clients.

At the end of 1989, nine (9) technicians were providing service to eighty-two (82) farms.

(2) Committees

Because Farm Management Staff have a fair bit of expertise in the business aspects of agricultural production, they are often called upon to serve on a variety of committees. The committee approach is an excellent way to accomplish certain tasks, but it does take up some time. Committee work, however, is an excellent opportunity for staff to broaden their horizons and to cooperate with other staff members. In 1989, Farm Management staff served on the following committees:

Advisory Committee on Extension, Education, and Economics (ACEEE)

Farm Management Sub-Committee, ACEEE

Tree Fruit Production Policy Committee

Extension Newsletter Committee

Expert Committee on Farm Management

ALFI Farm Planning Services Program Implementation Committee

AFDA Technology Acceleration Program Implementation Committee

Comprehensive Farm Development Boards

In addition to the above, Farm Management staff also served on several ad hoc committees and task groups. Some of these include:

Vegetable Cost of Production Study Steering Committee

Crops 90 Expo Steering Committee

Swine Test Station Privatization Committee

(3) Staff Training Activities

In order to provide high quality service, there is a constant need for staff to remain updated. Some time and money was spent in meeting this need in 1989. Staff members

participated in the following training activities in 1989. Numbers in brackets indicate the number of Farm Management staff, if more than one.

ACEEE Workshop (3)

Agricultural Management Systems: Directions and Visions Conference

Extension Branch Conference (6)

Time Management Workshop

Agricultural Finance Conference

Profit Managers' Workshop (5)

## GOALS FOR 1990

Plans for 1990 will involve a continuation of some existing programs, along with the development of some new initiatives.

More specifically, the following goals will be pursued in 1990:

(1) Farm Counseling

This activity will maintain its high priority in 1990. It is expected that this individual service will be provided to 900 clients.

(2) Formal Training

Emphasis will be on the area of Financial Management. A Profit Managers' Workshop will focus on sound financial management strategies for farm managers.

(3) Economic Data

No new commodities will be added to this service in 1990. A total of 150 farm records will be analyzed, including dairy and swine farms.

## CONCLUSION

In this report, the activities of the Farm Management Division for 1989 have been reviewed. Plans for 1990 have been discussed briefly.

The author would like to thank all the Farm Management staff for their effort and co-operation in 1989. Thanks are also extended to Rollie Hayman, Director of Extension Services, for his strong support of the Farm Management Program.

Respectfully Submitted,

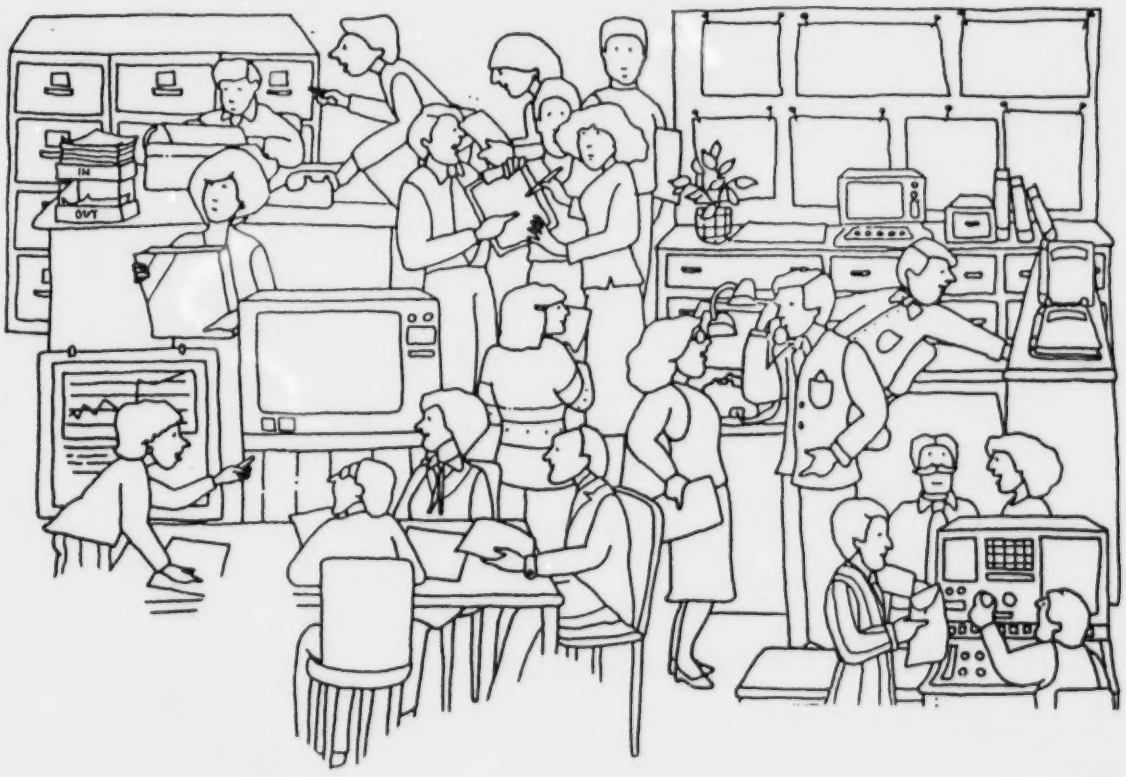
Alan C. Grant, P.Ag.
Farm Management Specialist

ACG/tdm
01/05/89

Nova Scotia
Department of
Agriculture and Marketing

# Annual Report

# 1989 Home Economics Section



Prepared by:
Susan Horne, Supervisor
Home Economics Section

## FOREWORD

The Annual Report of the Home Economics Section consists of Six (VI) sections.

Sections I-VI contain statistical tables which include: (I) Performance Indicators, (II) Food and Education and Promotion, (III) Women's Institutes, (IV) 4-H, (V) Farm and Agricultural Related Activities, (VI) Other Activities, and Closing.

This report is designed to provide the reader with a view of the Home Economics Section program and at the same time, develop an appreciation of the nature and scope of the Sections activities.

The staff who coordinate the Home Economics Extension Program are:

| | | |
|---|---|---|
| Colleen MacNeil | Regional Home Economist | Antigonish Office<br>Antigonish, Pictou,<br>Guysborough |
| Gail Keddy | Regional Home Economist | Truro Office<br>Cumberland, Colchester,<br>Halifax, East Hants |
| Cheryl Butts-MacMillan | Regional Home Economist | Mabou Office<br>Victoria, Inverness |
| Jane Lewis | Regional Home Economist | Sydney Office<br>Cape Breton, Richmond |
| Valorie MacKinnon | Regional Home Economist | Bridgewater Office<br>Lunenburg, Queens,<br>Shelburne, Yarmouth |
| Marjorie Knowles | Regional Home Economist | Kentville Office<br>Kants, Kings, Annapolis,<br>Digby |
| Susan Horne | Supervisor, Home Economics | Truro Office |

OTHER:

Ellen O'Reilly was employed in the Eastern Region from January - July 1989.

Toosje Van de Sande - Interim Home Economist, Eastern Region, from August - September 1989.

Junior White, Chrystal Joyce - Challenge Employment position - 4-H and Home Economics Section.

1. Identify needs, plan, implement and evaluate extension education programs aimed at consumers, children and professionals as multipliers to:

(a) cultivate an awareness, understanding and positive attitude towards the N.S. agricultural industry (foods produced, production costs, impact of industry, etc.) to maximize the utilization of N.S. food commodities.

(b) develop an understanding of the basic management skills necessary to maximize value for every food dollar spent (nutritionally and economically).

2. To develop leadership, personal management and related skills with Women's Institutes, 4-H, and farm families for the betterment of themselves and their living environment.

(a) facilitating group and personal development in W.I. and agricultural organizations through needs identification, leadership training, volunteer recognition (commitment of time, and money).

(b) providing specialist and technical information and management and organization skills to the farm community and professionals.

(c) by increasing professional visibility and further development a rapport and positive attitude with members of the agricultural community to more clearly define our role in the field of agriculture.

***

These objectives provide our working framework for the Home Economics Section. The work of the section is carried out by county, regional and on a provincial basis by the seven staff. Each Regional Home Economist develops a regional work plan appreciative to the needs of the local area. The first objective is commonly referred to as "Food Education". The specific details on the diversity of programs carried out to meet that objective is provided under the statistical tables further over.

The second objective refers to the leadership, human resourse, and technical skills Home Economists provide in working with farm families, Women's Institutes and 4-H. Refer to the statistical tables for details.

SECTION 1 PERFORMANCE INDICATORS

Jan. 1 - Dec. 31, 1989

| INDICATION | W.I. | 4-H | FARM | PROFES-SIONAL | OTHER | YEARLY TOTAL | PREVIOUS YEAR |
|---|---|---|---|---|---|---|---|
| # of calls on clients | 49 | 126 | 22 | 60 | 73 | 330 | 348 |
| # of office calls | 90 | 289 | 67 | 82 | 314 | 842 | 700 |
| # of meetings, short courses, programs, displays, etc. attended | 154 | 516 | 119 | 156 | 174 | 1120 | 969 |
| Attendance at meetings, short courses & programs | 3343 | 14987 | 8549 | 2434 | 11728 | 41041 | N/A |
| # of mass meetings, programs, displays, etc. | 4 | 101 | 13 | 10 | 11 | 139 | N/A |
| Attendance | 683 | 48352 | 69700 | 2500 | 25495 | 146730 | 101738 |

| | | | |
|---|---|---|---|
| 2770 (2621) | Information Requests within 5 days | 983 (840) | Radio & T.V. Broadcasts |
| 93.4 (95.5) | % Requests handled within 5 days | 868 (903) | Newspaper Articles Or Releases |
| 7903 (7703) | Letters Written | 39991 (30567) | Publications & Circulars Distributed |

NOTE: Brackets are for last year's figures.

ANALYSIS

These performance indicators are recorded on a monthly basis. At the time of writing the report the section is reviewing whether those are the best indicators that there are to measure the results of our work. No doubt next year will see a change in our indicators, and the section is looking forward to better measures of the impact of their programs.

Reviewing these indications one can see fairly dramatic changes whereas others have remained constant over the years and it is constant again this year - office calls are up 20% and client calls are down, slightly. This trend tends to reverse each year one up and the other down.

Over the last three years we have identified the farm family as a target group. This is reflected in a 175% increase of individual contacts with farm clients.

The next four indicators are somewhat difficult to do accurate comparisons this year. The recording system was changed in 1989 to separate attendance at mass meetings from other meetings. In the long run, it will provide a truer picture of the real numbers directly involved in the programs but in the interim numbers are somewhat skewed. 4-H still continues to be an area where there is significant client contact individually through meetings. 1989 shows a 127% increase in the number of meetings and programs.

The Section provides a one to one service to answer consumer questions. These are usually on food safety, food preservation, food handling and preparation methods. Many of these can be handled quickly but some require research time, however, our clients are very responsive to this service available to them. The amount of time required to respond to their request varies on the complexity of the request or the availability of staff. Calls peak in the summer season when the staff are out of the office a great deal of time. A 93% turn around within five days is a satisfactory rate at peak times.

The media continues to be available to the Home Economics Section. Cable T.V. - although does not have a huge audience, has a consistent following. Cable has enabled Home Economists to provide a food education program to additional areas of their region that otherwise they would not necessarily be able to get to. To increase the number of radio and T.V. broadcasts by 117% in time when many other groups are lobbying for free media opportunities speaks well of the broadcasts the staff are doing.

Newspaper articles and press releases are developed to promote specific programs and educate consumers about using Nova Scotia products. The number is down by 4% over last year, and can be attributed to one paper going out of business.

Publications distributed show an increase this year due to two large projects where a lot of printed material was provided. Normally, a decline in this was anticipated because of reduced printing dollars and commodities having money to develop and print materials.

It is important to note who our clients are and what percent they reflect the overall total client group, W.I. - 8% (12.5), 4-H - 36% (52.3), Farm - 21% (14.4), Professional - 6% and Other - 24%.

Women's Institutes showed a significant drop for two reasons. Last year was their seventy-fifth Anniversary and there were special programs whereas this years was up 2% over the preceeding year and their numbers are down. 4-H shows a significant decrease, which presents a more accurate picture because of the separation of mass numbers. Farm contacts are up. Professional contacts is the work we do through "Other" -- Teachers, Home Economists, mainly to transfer Nova Scotia agriculture and food information through. "Other" refers to consumers in general which many of our programs are aimed at.

The Home Economics Section represents approximately 8% of the Extension staff. Even though the percentage is small, the contribution to the Branch cannot go unnoticed.

## SECTION II - FOOD EDUCATION

### DEMONSTRATIONS & PRESENTATIONS

| | Number of | Group if Applicable |
|---|---|---|
| 1. Food Buying, Budgeting | 2 | Job re-entry |
| 2. Food Preparation Basics Microwave, Woks, Garnishing, Barbecuing | 20 | WINS, consumer groups, school classes, church |
| 3. Food Preservation | 6 | Garden Club, W.I., students |
| 4. N. S. Food Product Education Fall Vegetables, Microwaving N.S. Foods, Pumpkin, Sandwiches | 20 | Day Care, consumers, church groups, W.I., school classes |
| 5. OTHERS - Nutrition Month, Snacks, Meal Planning, Diet/Cancer, Healthy Eating | 6 | W.I.'s, Brownies, Garden Club, Hospital Auxiliary, students |

### EXHIBITS, DISPLAYS, SHOWS

| Theme | Duration | Sponsor |
|---|---|---|
| Microwave Food Display | 1 day | Home Ec. |
| Cake Decorating Display | 1 day | Home Ec. |
| Food Fabulous Show | 2 1/2 hours | W.I., N.S.D.A. & M., Commodity Groups |
| Farming Is Awesome | 4 days | Dept., A.W.F., Agriculture Canada |
| APEX - Fresh For Flavor | 3 days | N.S.D.A.M. |
| Chicken in the Microwave | 1 day | Home Ec. |
| Heritage Days - Fall Vegetables | 3 hours | Home Ec. |
| Nutrition Month | 3 days | Home Ec., & Nutrition Month Committee |
| Food Fest | 2 days | N.S.D.A.M. Extension |
| Taste of N.S. Travelling Display | 4 weeks | Home Ec., Year of the Quilt Group |
| Food Preservation | 1 day | Home Ec. |
| University Students - Nutrition Month Project | 2 days | Home Ec., Acadia |
| | | |

WORKSHOPS and/or COURSES

| | number of | group if applicable |
|---|---|---|
| Food Labelling Presentation | 1/2 day | Commodities, staff |
| Food Labelling Workshop | 4 days | Staff |
| Wok Cooking | 3 days | Community schools, Micheline |
| Garnishing | 3 days | Cape Breton Foods Leaders Recreation Group |
| Microwave | 2 days | Community groups |
| Microwave Instructor Training | 1 day | Individual |
| Heart Health Day | 1 day | General public |
| Applemania | 2 days | Public, W.I. |
| Food Preparation In the Micro-wave | 4 days | Church group |

| Special Projects (What, For Whom) | Amount of Time | Purpose |
|---|---|---|
| Nutrition Month Planning Program | 5 days | Education, awareness |
| Cable T.V. | 32 days | Education, promotion |
| 12 Days of Christmas- Radio Program | 2 1/2 days | Education, promotion |
| Nutritious Cafeteria Meals | 2 hours | Increase standards |
| Food Fabulous '89 | 52 hours | Education, promotion, fund raiser |
| Pie Contest | 15 hours | PR, promotion |
| Garden Guide (15 tapes) | 2 days | Education |
| Food Products, Nutrition- Teachers Package | 2 days | Food education |

RESEARCH & PROGRAM DEVELOPEMENT:

| | | |
|---|---|---|
| Food Labelling Project Proposal | 1 day | Nutrient analysis of commodity |
| Recipes: Programs and brochures - testing and development - Zucchini, Honey, Maple, Microwave | 29 days | Workshops, judging classes, booklets, program materials |
| Media Releases | 16 days | Educational |
| Researching T.V. Shows | 2 hours/week | Education, promotion |
| Heart & Health Luncheon | 2 hours | Awareness |
| Agriculture Awareness Education Kit | 65 hours | Education for school |
| Garnishing Booklet Revision | 1/2 day | Awareness, education |

OTHER:

| SPECIAL PROJECTS (WHAT, FOR WHOM) | AMOUNT OF TIME | PURPOSE |
|---|---|---|
| Agricultural Exhibits | 8 days | Establishing Agricultural exhibits building |
| Agriculture Awareness Exhibit | 6 days | Education |
| College Curriculum Developement | 2 days | New diploma program |
| World Food Day, Committees and Sub-committees | 6 meetings | Awareness, education |

The Home Economics Extension program has a very important dimension - Food Education. It is constantly a challenge to have innovative programs to appeal to today's sophisticated consumer. Whether it is Agricultural Awareness, today's buzz word on Agri-Food education, Home Economists are out there telling the story about our Nova Scotia products and their uses.

Each region has undertaken innovative projects to appeal to todays consumer and are most worthy of noting here. This is by no means a complete list but a few highlights.

On Cape Breton Island Cheryl Butts-MacMillan and Jane Lewis are able to work as a team; a benifit not really available to the rest of the staff. The Cape Breton team coordinated a "Food Fabulous Show" where 350 people were entertained with comic theatre performances and Nova Scotia food demonstrations. The program concept is a good one. The Women's Institute District arranged the facilities, sold tickets, and promoted the event. This is a good fund raiser for them and gives them recognition for their organizing ability.

Valorie MacKinnon has added a creative dimension to promote the Nova Scotia Foods in her "Hands On" Garnishing Workshop. Valorie has also established a media program in this area, where it did not exist to the same extent.

The Food Festival in Truro provided an opportunity for Gail Keddy to promote Nova Scotia rabbit as well as introduce the public to the services Extension provides to the agricultural community.

Using Nova Scotia vegetables in unusual ways and making good use of the produce in season were key reasons for Marjorie Knowles recipe development projects and the release of a Vegetable Cake and a revised Zuccini booklet.

Colleen MacNeil who is our newest addition on staff is helping coordinate a feast of Nova Scotia foods to promote our fine Nova Scotia products to visitors from all across Canada at the Canadian 4-H Council Meeting in May.

The Foods Products and Nutrition binders are in every school with Home Economics departments in Nova Scotia. They provide information on Nova Scotia products and ideas on how to use them in the classroom. As well, there are N.S. commodity coupons to a value of $75 that teachers can use towards the purchase of food for their classes. Even if the 200 schools use the information or products at least once to a class of 30 and 25% go home with the information, it can make a difference.

In November 1988 the new food labelling guidelines from Health and Welfare came into affect. In order to talk about food in nutritional terms nutrient data must be put on promotional literature, posters, etc. There are lots of challenges associated with this and we are helping commodities understand the implications of the guidelines.

A major project in cooperation with the Atlantic Winter Fair, and the Nova Scotia Agricultural Awareness Committee was the Farming Is Awesome Exhibit where 6200 children visited the exhibit. It featured mini exhibits of various aspects of agriculture. Along with the exhibits children were provided with quizzes and nametags, the teachers with answer guides and Nova Scotia agriculture fact sheets. It was a great learning experience.

We see a natural coordination link between the nearly formed Agriculture Awareness Committee and the Agriculture Awareness focus the Home Economics Section has had all along and will continue to have.

SECTION III WOMEN'S INSTITUTES OF NOVA SCOTIA

# of Institutes in Province 117 ( 115 )

# of Members in Province 1700 ( 1831 )

| I. REGIONAL | # of | Attendance | II. PROVINCIAL | # of | Attendance |
|---|---|---|---|---|---|
| Home Calls | 46 | -- | Prov. of Area Conv. | 1 | 250 |
| Office Visits | 88 | -- | Board Meetings | 5 | 55 |
| W.I. Branch Meetings & programs | 23 | 363 | Committees | 3 | 25 |
| Workshops | 3 | 264 | Farm Women's comm. | 3 | 21 |
| Program Planning Meetings | 41 | 221 | Other | 1 | 20 |
| Committees | 13 | 69 | --- | | --- |
| Spring Executive | 18 | 735 | Farm Women's Conf. | 1 | 85 |
| Rallies | 21 | 999 | --- | -- | --- |
| Special Events | 4 | 505 | --- | -- | --- |
| Other | 2 | 4 | --- | -- | --- |

III. SPECIAL PROGRAMS:

Women's Days - Guysborough
Christmas Ideas with Apples
Food Fabulous
Farm and Home Safety Quiz
Agriculture Awareness Project - Inverness South
Applemania - Educational Program
Spring Program - Kings District
Bits and Bites of Canadian Cuisine
Convention Workshop (6)
Farm Women's Conference Presentation (7)
Nutrition Month Programs - School Contest

WOMEN'S INSTITUTES

The membership numbers in Women's Institute are of great concern and they really have to take a serious look at turning things around. In the last year there has been a drop in membership of 131 members alone. They have formed recruitment committees to do scouting. Home Economists are involved with these on the local level.

The Inverness South W.I. are working with Cheryl Butts-MacMillan through A.F.D.A. funding on a Grade 6 agriculture program. It consists of slides of agriculture in the county, mapping sheets, classroom activities etc.

Food Fabulous as mentioned under Food Education is an excellent concept. The W.I. who have credibility in the community, can organize things well and volunteers do the legwork and the program gets coordinated by the Home Economists and commodity demonstrators. This particular event ended up being a good fund raiser for Cape Breton District as well.

Kathie Hagen was appointed the new Executive Director for Women's Institutes in December. Norma Mosher retired from that position after 20 years of dedicated service.

## FARM WOMEN'S ACTIVITIES

The Women's Institute has a Farm Womens Committee to address concerns and plan activities. This committee coordinated the Farm Health and Safety Competition last year. The provincial coordinator to the National Farm Womens Network is on this committee as well, so this committee reviews that information, and prepares responses. Nova Scotia Farm Women did opt to be part of the National Farm Womens Network at a Conference in November. They will be reviewing their position on this constantly as they are really not in favor of the formation of another farm organization in Canada and Nova Scotia. Nova Scotia farm women have always emphasized the importance of working through and strengthening the existing organizations.

## FARM WOMEN'S CONFERENCE

The tenth conference was held in November. This conference is planned by a committee of Women's Institutes and the Nova Scotia Department of Agriculture with representation by the Federation and farm women.

The theme You and Success brought 85 women together to a special session in goal setting, time management and self esteem. This session was followed by "skill a thon" presentations by the Home Economics staff with information to cope in the 90's. Public speaking, representing agriculture, effective communications and being assertive were samples of the topics presented.

Day two started bright and early with a walking tour of Truro hosted by the Mayor and the Heritage Committee chairman. Farm Women addressed the issues facing farmers from Trade, Chemicals and Animal Welfare. The Minister of Agriculture spoke on the challenges of the 90's and this was followed by a Farm Women's - Ronalda Woodworth account of her Appleberry Farm.

It was a very good conference and Farm Women are near the turning point where the original purpose behind Farm Womens Conferences has been met.

SECTION IV

## 4-H YOUTH PROGRAM

| | | | | | |
|---|---|---|---|---|---|
| # of Clubs in Province | 125 | ( 131 ) | # Homemaking Members | 1584 | ( 1722 ) |
| # of Members in Province | 2696 | ( 2933 ) | % Project Completion | 88.4 | ( 84.3 ) |
| # of Homemaking Leaders | 963 | ( 344 ) | # Leaders | | 962 |

| LOCAL | # of | Attendance | Involvement |
|---|---|---|---|
| Client calls | 126 | | Counselling, advisor, club re-organization, leader development |
| Office calls | 289 | | Answering requests, counselling |
| Judging practice, club mtgs., Council meetings; sub-committee meetings | 105 | 1662 | Advisor, resource person, instructor |
| Achievement Days | 95 | 5553 | Judge, resource person |
| Judging sessions marking days | 28 | 2165 | Judge |
| Workshops | 21 | 538 | Resource person |
| Exhibitions | 18 | 8485 | Judge, coordinator Home Ec. aspect, supervising |
| Regional & County Rallies | 7 | 695 | Organizer, judge, resource person, P.R. |
| Special Events | 26 | 2211 | P.R., guest speaker, chaperone, advisor |
| Other - Award interviews, staff meetings, exhibition meetings | 72 | 748 | Advisor, coordinator Interviewer, resource person, P.R. |

PROVINCIAL

| | | | |
|---|---|---|---|
| 4-H Weekend | 2 | 1000 | Judge, coodinating competition |
| Leadership Seminar | 1 | 56 | Co-chair |
| Leaders Development | | | |
| 4-H Show Comm.& sub. | 28 | 128 | Hosting, resource, advisor, coordinating competitions, etc. |
| Provincial Council & Sub | 8 | 150 | Advisor, delegates to annual meeting |
| 4-H Show | 1 | 7000 | Staff, coordinator, advisor |

RESEARCH & PROGRAM DEVELOPMENT

Advanced Food Manual
Milk Manual Revision
Homemaking Guide Revision
Cake Decorating Level 3 Development
Homemaking Newsletters
Fruit & Vegetable Project Answer Key
4-H Cookbook
Breads & Cereals Manual Revision
Kitchen Safety Revision
Competitions 4-H Show and Exhibition - Fashion Show,

RESEARCH & PROGRAM DEVELOPMENT, Continued

Cake Decorating (new),
Bake Off,
Traditional Crafts,
Leathercraft,
Wool,
Community Quilt,
Camp Rankin - menu planning, cook hiring, food purchasing
Judging Class Development
Gee I'm Glad It's Me Workshop
Modelling Book
Calfvention - Skill-A-Thon
Provincial Crafts Workshop
Marilyn Naugler Craft Workshop

ANALYSIS

The 4-H dimension to the Home Economics Section work continues to be a demanding yet rewarding job.

The Section has a responsibility to provide up to date homemaking project materials for members and leaders, as well as provide training to these leaders and members, and facilitate the development of special projects and programs. Along with the specific technical skills, Home Economists bring to the home-making component, Home Economists are often involved in planning and implementing other 4-H activities with the 4-H Representative as part of a team approach.

In the area of project materials, we are striving to have all of them on computer. Alternately this will make editing faster which is so important since updating and revision is an ongoing process with these homemaking resources.

In 1989 the Homemaking Guide, Milk Manual, Crafts Newsletter were revised.

New manuals and revisions started in 1989 and will be ready February 1990 include the Heritage Project, Level 1 and 2, a new Level 3, a new Advanced Foods Program with four separate modules, a Level 3 Cake Decorating Manual.

4-H Show continues to be one of the highlights of our 4-H efforts mainly because we see the results of our input into the program through the projects displayed and the quality of the activities that the Home Economists work on with the leaders. Two activities - the 4-H Nutrition Booth and the Community Quilt that Home Economists look after are also a source of funds for the Nova Scotia 4-H Council. A new competition Cake Decorating was added to the events and was quite successful for the first effort.

The Marilyn Naugler fund enables Lunenburg County to coordinate a craft workshop for leaders in that area. The workshop is designed to teach a craft skill as well as project updating and quality standards.

Through the Canadian 4-H Council funding provided by Imperial Oil Limited has been approved for a Crafts Leader Training Workshop in 1990. The Committee has been formed and plans are beginning to shape up.

Two years ago we received funding for a workshop for Sewing Leaders within approximately 80% of the leaders participating. It was extremely successful. After that workshop two events were planned on Cape Breton Island as a direct result of the program.

SECTION V

## FARM & AGRICULTURE RELATED ACTIVITIES

| | No. of | Involvement & Purpose |
|---|---|---|
| Community Fairs, Festivals | 12 | Organizer, judge, advisor |
| Exhibitions, Evaluation Committee | 14 | Hired judges, advisor, evaluator |
| Farm Women's Conference | 1 | Staff |
| County Farm Women's Day | 6 | Coordinator, advisor |
| Young Farmers' Conf. & Committee | 4 | Chair, committee |
| Exhibition Planning Meetings, prize book revisions | 5 | Advisor |
| Judges Clinic | 1 | Staff, instructor |
| Judging Standards | | Editor of manual |
| Leadership Dynamite | 1 | Coordinator, resource person |
| Agriculture Education Committee | 2 day | Planning short courses |
| Exhibition Display | 6 days | Promote services of Dept. |
| AFDA Meetings | 8 | Dept. Rep. |
| Federation/Commodity Meetings | 6 | Observer, presented report |
| Farm Health & Safety Planning mtgs. & Competition | 7 | Committee member |
| Farm Health & Safety - Sub & Projects | 5 | Coordinator, staff |
| Farm Women's Questionnaire | 1 | Needs assessment |
| Extension Newsletter & Committee | 4 | Staff |
| Kiwanis Farm Family Dinner Committee | 2 | Advisor, committee |
| Agricultural Awareness Committee | 6 | Chairperson |
| Exhibition Video | 1 | Staff |

**ANALYSIS:**

As our objective in the last several years was to increase our effort in the agriculture awareness area, our results have been growing steadily.

Home Economists have worked with many exhibitions and community fairs to improve their prize books and encourage them to feature N.S. foods.

Gail Keddy chaired the Young Farmers' Conference in Truro. The conference went well and again an excellent group of delegates participated.

Six county Farm Women's days were held throughout Nova Scotia. Our aim in these programs is to bring local women together so they can be informed of issues, learn skills, and at the same time develop their planning and participation skills to use on their farms and with their farm organizations.

We have had judges training schools since 1983 to qualify judges in the home-making area and provide up-to-date judging standards for Nova Scotia. To-date we now are maintaining a list of 70 judges from across the province who can judge at exhibitions and 4-H. Overall, we are very pleased with the program in terms of the commitment of our judges to upgrading and the improved professionalism of judging across the province.

## OTHER ACTIVITIES

### Professional Development

| | No. of | Involvement & Purpose |
|---|---|---|
| Career Track Seminar | 1 day | Participant |
| ACEEE | 3 days | Participant |
| Home Ec. staff meetings | 5 days | Staff |
| AIT sessions/NSIA | 10 days | Participant |
| Planning Training Session | 1 | Participant |
| Regional county office staff mtgs. | 12 mtgs. | Staff, participant |
| Agriculture in the Classroom Conf. | 3 days | Participant |
| Situational Leadership Seminar | 2 days | Participant |
| Royal Winter Fair | 3 days | Ideas mission |
| Extension Staff Conference | 2 days | Participant |
| AIC/CSE Conference | 6 days | Participant, director, presenter |
| N.S. Home Ec. Association (2) | 2 days | Participant |
| N.S. Home Ec. Assoc. Media Workshop | 1 day | Participant, host |
| Orientation Manual Revision & Develop. | 1 | For new staff of Div. & Dept. |
| Staff Evaluations, Visits | 11 | Staff |
| Pay Equity Questionnaire | 1 | Writer |

### Other

| | | |
|---|---|---|
| Year Of The Quilt Committee Travelling Show | 4 weeks | Advisor, Leader |
| Home Study Course & Promotion | 255 | Launching, coordinator |
| Jean Munro Library Memorial Book Project | 1 | Advisor |
| Judging Various Competitions | 5 | Judge |
| Career Days | 2 | Advisor, presenter |
| Budget counselling/Money Management | 6 | Counsellor, Instructor |
| Interdepartmental Committee on the Status of Women & Sub Committee | 13 | Dept. Representative |

### Package Programs Requests

| | |
|---|---|
| Regional Offices | 26 |
| Transparencies | 10 |
| Slide Library | 44 |
| Package Programs | 88 |
| Videos | 50 |
| TOTAL | 218 |

ANALYSIS - OTHER ACTIVITIES

In order to have a trained and motivated staff, professional development opportunities and planning days where staff make suggestions to the direction of our program are an integral part of the Home Economics Section. This is ongoing and in 1989 attendance at conferences, workshops and staff planning meetings were a means to reach this objective and as stated under Section VI.

Section VI is also a listing of activities not identified before. The Basic Money Management Program was offered again. There were 285 registrants.

The Jean Munro Memorial - $500 towards the purchase of special extension books for the library is being searched. It is anticipated that these books will be in place the spring of 1990.

To provide educational programs to our clients, we do offer resources on a loan basis - videos, slides, etc. There has been an increase in the use of these materials by 133%. The largest growth area is in the area of videos. As we expand our list of timely videos, this will increase even more.

## CLOSING

It is the end of a decade and it is a good opportunity to reflect back on our achievements in the 80's and to plan for the new decade ahead of us. We are very proud of the innovative high-quality programs that have been implemented in the 80's. We experienced a change over these years, evaluating and adjusting our programs to meet the ever changing needs of our clientele, and striving for top quality programs. Along with that our program has been focused towards agriculture awareness and education like it should be as part of the Department of Agriculture.

In the next year we will have a plan in place to outline our new goals in agricultural awareness. It's really an exciting time for us. Along with that, the section will have key result areas in place to measure the effectiveness of these programs as they are implemented.

Needless to say, the process of long term planning and developing mission statements is a challenging one. I want to commend the Home Economics staff for their patience and their visions for the 90's as we go through these discussions.

I have a fine group of Home Economists who are committed to doing a good job and I want to thank each one of them for their individual contribution to make the the Home Economics Section what it is today.

I also want to welcome Colleen MacNeil, our newest member on staff, who is working out of the Antigonish Office.

A special thanks is extended to Rollie Hayman, Jack Redden and Mary Guinan for all of their help over the years and to wish them the very best in their new positions. Also best wishes to Ellen O'Reilly in her new Fisheries job and thanks for all of the years of service with the Department.

Welcome is extended to Dave Sangster, Bob Bennett and Margaret Johnson. I hope we can make you feel part of the Extension Team in Truro.

To Liz Crouse, a special thank you for your ideas, sincerity and your sense of humor.

To our clients who make the job we do have purpose and to the many other Department staff who are always willing to help out - Thanks.

In closing, a special thank you to Julie Landry our special job placement worker who struggled through my writing to type this report.

Respectfully submitted,

Susan Horne

Susan Horne
Supervisor

Nova Scotia

Department of Agriculture and Marketing

# 1989 4-H DIVISION ANNUAL REPORT

FOR THE YEAR ENDING: DECEMBER 31,1989

SUBMITTED BY: ELIZABETH CROUSE, P.Ag.
4-H SUPERVISOR

# 4-H AND RURAL YOUTH
# ANNUAL REPORT
# 1 9 8 9

The new program highlight of 1989 was the Provincial Calfvention. This project specific workshop was held in March for calf project leaders and members. The "4-H Looks Good on You" theme was displayed at all events.

## Statistical Summary:

4-H membership showed a disappointing decrease in 1989 primarily due to a decrease in club numbers. Adult volunteer leaders remaind constant. It is especially interesting to note the number of projects completed increased as did the percent completion rate. See Table 1 and 2 for details.

## Nova Scotia 4-H Council:

The Nova Scotia 4-H Council met in January, March, May, July, and October. The annual meeting was held in November and for the first time included a two hour training session. Leadership skill education was made possible by the Canadian Council Mobil Leadership package.

The Nova Scotia 4-H Council Executive for 1989 were:

| | |
|---|---|
| President: | Hob MacLeod, Cape Breton County |
| 1st Vice-President: | Bev Patterson, Hants County |
| 2nd Vice-President: | Judy Wile, Lunenburg County |
| Past President: | Faye Moore, Cumberland County |
| Secretary: | Allison Magee, Kings County |
| Treasurer: | Elizabeth Crouse, 4-H Supervisor |
| Hants/Kings Director: | Bryon Lamb, Kings County |
| Cape Breton Director: | Herman van den Heuvel, Inverness County |
| South Shore Director: | Mary Frail, Queens County |
| Central Director: | Peggi Giffen, Colchester East-Hants Co. |
| Eastern Director: | Marlene MacMillian, Antigonish County |
| Western Director: | Ann Marie Pearle, Annapolis County |
| Atlantic Director: | Sisca Bekkers, Antigonish County |
| Canadian 4-H Council: | Mary Magee, Kings County |
| 4-H Host: | Lewis MacKinnon, Antigonish County |
| 4-H Hostess: | Lynn Mattie, Antigonish County |
| Staff Advisor: | Susan Horne, Home Economics Supervisor |
| Rural Beautification: | Marilyn Gazley, Halifax County |

The Council continues to emphasize 4-H promotion and does alot of work with the fundraising and promotion items. Their largest project of the year was raising approximately $5,000 for the Island of Montserrat to aid in rebuilding from Hurricane Hugo.

**Nova Scotia 4-H Weekend:**

The 1989 Nova Scotia 4-H weekend, held annually in Truro ran from May 5 to 7.

The winners of various competitions were:

Senior Public Speaking: Elissa Tilley, Halifax County

Intermediate Public Speaking: Michel Banks, Annapolis County

Junior Public Speaking: Meghan Edwards, Cape Breton County

Top Junior Introducer: Mandy Holmes, Shelburne County

Top Junior Thanker: Carolyn MacIntyre, Cape Breton County

Junior Single Demonstration: Mary-Jane MacNeil, Cape Breton Co.

Senior Single Demonstration: Rose Kehoe, Richmond County

Overall Single Demonstration: Rose Kehoe, Richmond County

Senior Team Demonstration: Jennifer Evans, Halifax County
Tracy MacGregor, Halifax County

Junior Team Demonstration: Shannon Boyle, Antigonish County
Melanie MacDonald, Antigonish County

Junior 4-H Poster: Leo Murphy, Guysborough County

Senior 4-H Poster: Coline Cooke, Pictou County

Junior 4-H Decal: Jennifer Grant, Pictou County

Senior 4-H Decal: Rose Kehoe, Richmond County

Top Woodsman Team: Colchester East Hants

4-H Host: Lewis MacKinnon, Eastern Region

4-H Hostess: Lynn Mattie, Eastern Region

Top Junior Modern Square Dance Team: Lock-Clover 4-H Club, Antigonish

Top Senior Modern Square Dance Team: (Prepared Dance) Lock-Clover 4-H Club, Antigonish

Top Senior Modern Square Dance Team: (Compulsory Calls) Lock-Clover 4-H Club, Antigonish

Top Junior Old Time Dance: South Bar 4-H Club, Cape Breton

Top Senior Old Time Dance Team: (Prepared Dance) — Stewiacke 4-H Club, Colchester East Hants

Top Senior Old Time Dance Team: (Compulsory Calls) — S.B.I. 4-H Club, Pictou County

National 4-H Travel winners were also announced on 4-H Weekend. The following were the selections:

National 4-H Conference, Washington, D.C. (April 6-16)

Philip Dickie - Halifax County

Dairy Conference, Madison, Wisconsin

Holstein: Joy Ward, Annapolis County
Craig Thomson, Antigonish County

National 4-H Members' Conference (November 8-12):

1. Danny Davison - Hants County
2. Mark Langille - Pictou County
3. Juanita Johnson - Digby County
4. Sarah Salter - Cape Breton County
5. Jennifer Evans - Halifax County
6. Darren Smith - Cumberland County

Citizenship Seminar, Ottawa (March 31 - April):

1. Charles MacDonald - Guysborough
2. Genevieve Harvey - Hants County
3. Patti Wile - Lunenburg County
4. Maxine Meisner - Colchester East Hants
5. Tracy McGregor - Halifax County
6. Tina Sweeney - Yarmouth County

Career Conference, Winnipeg (October 7-15):

1. Chris van den Heuvel - Inverness County
2. Heather McNutt - Colchester East Hants

Interprovincial 4-H Exchange (July 4-18):

Alberta: Heather Isenor, Colchester East Hants

Saskatchewan: Wanda Starratt, Kings County

Ontario: Dorreen MacIntosh, Antigonish County

New Brunswick: Sandy Scott, Pictou County

Newfoundland: Greg Parker, Hants County

Atlantic Ambassadors Conference, Moncton:

1. Alan Langille, Pictou County
2. Shawna Holdright, Queens county
3. Andrea Palmer, Hants County
4. Serena Whitty, Richmond County
5. Jeff Longley, Annapolis County
6. Susan Zwicker, Colchester East Hants

Nova Scotia 4-H Council Scholarship:

1. Teressa Campbell, Hants County

Canadian National Exhibition Scholarship (August 29 - Sept. 12):

1. Stephanie Peppard, Colchester East Hants

Petro-Canada Youth Leadership Awards:

1. Heather MacMillan, Antigonish County
2. Jennifer Evans, Halifax County

LEADER TRAVEL OPPORTUNITIES:

National 4-H Leaders Conference, Toronto (November 9-12):

1. Wallace MacKay, RR#2, Truro, Colchester Co. B2N 5B1
2. Sharon Longley, Margaretsville, Annapolis Co. BOS 1NO
3. Peter LeBlanc, RR#1, River Bourgeois, Richmond Co. BOE 2XO
4. Anne Marie Pearle, RR#4, Bridgetown, Annapolis Co. BOS 1CO
5. Shirley MacPhee, RR#1, Elmsdale, Hants Co. BON 1MO

Prince Edward Island Leaders Conference:

Jeff and Brenda Reeves, Lunenburg County

Scotiabank Contact Hayes Classic:

Ronnie Barret, Annapolis County

**Nova Scotia 4-H Show:**

Pictou County's exhibition grounds was the home of the 12th Annual 4-H Show. Once again the commitment of the hosting

county was great and was highlighted by alot of extra work on publicity.

The Provincial 4-H Show Committee consisted of:

| | |
|---|---|
| Co-chairman: | Rita Post, Pictou County<br>Mark Firminger, Pictou County |
| Secretary: | Claudia Zwicker, Halifax County |
| Members: | Faye Moore, Cumberland County<br>Glen Laidlaw, Colchester County<br>Penny Hemens, Antigonish County<br>Ann Marie Archibald, Antigonish County |
| Staff Advisors: | Susan Horne, NSDA&M, Truro<br>Elizabeth Crouse, NSDA&M, Truro<br>Don Butler, NSDA&M, Pictou |

Colchester East Hants won the flag for top county in the province.

The Market Steer and Lamb Show & Sale was again held at this year's show.

Twenty three lambs and twenty three steers were shown in 1989. The Champion Lamb owned by Sandra van den Heuvel of Antigonish, weighed 110 lbs. It sold for a price of $6.20/lb. to Owen Davis Trucking. They also purchased the Champion Steer for $3.35/lb. The steer weighed 1130 lbs. and was owned by John Dolliver of Kingston. (Champion prices in 88 were $2.75/lb. and $2.05/lb.)

The average price for the 15 lambs sold was $2.65. ($2.59 in 88, $2.72 in 87, and $1.74 in 86). The average price for the 15 steers sold was $1.70 lb. ($1.62 in 88, $1.65 in 87, and $1.21 in 86).

The Committee, under chairman Gary Burley, worked hard to ensure a high quality show and sale. Their enthusiastic efforts are obviously paying off as indicated by increasing prices over the last few years. Committee members included:

Gary Burley
Buddy MacDougall
Jim Ripley
Allan Palmer
Elizabeth Crouse
George Lacey
Tom Nunn
Jack Redden
Anthony van Oostrum
Jim Neary

Two steers were culled at this years show.

**4-H Staff:**

The 4-H staff positions remained constant throughout the year.

The 4-H staff are:

Supervisor of 4-H: Elizabeth Crouse
Provincial 4-H Office Secretary: Michelle van Oirschot

Regional Postions:

Cape Breton Island - Bill MacLeod
- Cheryl Butts MacMillan
Eastern Region - Don Butler, Pictou
Valley Region - Ruth Withrow, Windsor
Central Region - Weldon Smith, Truro
South Shore Region - Lynn Thurber, Bridgewater
Western Region - Joanne Beaton, Lawrencetown
Barb Headdy, 4-H Secretary - part time

The 4-H Representatives put a great deal of effort and enthusiasm in their positions. I want to take this chance to thank them for all their hours and cooperation over the past year. The Home Economic's Staff continue to provide excellent service to that portion of the 4-H program.

Tracey Veno also worked as an Assistant Secretary for four months through a job training program.

Dean Manning worked as the co-ordinator for the programs while the Supervisor was on five months maternity leave. Jack Redden took over the staff duties.

Anna Oulette filled in Michelle van Oirschot's position while Michelle was on maternity leave.

**4-H Summer Staff:**

The summer staff began their work with a three day orientation program in Truro. This year a defensive driving program was added to the educational section. Positions were as follows:

Mabou: Marina Gough
Antigonish: Andrea Doucette
Truro: Troy Hiltz
Nappan: Kim Smith
Windsor: Rhonda MacDougall
Yarmouth: Susan Simpson

Provincially the 4-H office shared a Challange '89 student with the Home Economics Division. Junior White and then Crystal Joyce filled that position.

**Atlantic 4-H Committee:**

The Atlantic 4-H Committee was chaired by the Nova Scotia Supervisor and met two times during 1989. Weldon Smith and Sisca Bekkers were the other Nova Scotia members. Six programs were coordinated on the Atlantic Level with Nova Scotia hosting the Atlantic Communications Conference and the Inter Provincial Exchange.

**Camp Rankin:**

Four weeks of Junior Camp and one week of Intermediate Camp comprised the 1989 season.

Camp Staff were:

| | |
|---|---|
| Director: | Marlene MacMillan |
| Assistant Director: | Angela Bonell |
| Cook: | Marilyn MacKay |
| Assistant Cook: | Serena Whitty |

Counsellors:

| | |
|---|---|
| 4-H: | Genevieve Harvey |
| Water Saftey: | Kim Knight |
| Drama & Arts: | Trina Hall |
| Craft: | Dawn Barrington |
| Recreation: | Rodney Doyle |
| Nature Study: | Buddy Burgess |
| Canoeing: | Kevin MacDonald |

The Counsellor in Training Program also provided some staff help. Returning Director, Marlene MacMillan, provided excellent leadership.

**4-H Staff Training:**

4-H staff had many opportunities for training during the year. Staff set on the Atlantic 4-H Committee, directed National 4-H Conference, chaperoned and attended three Atlantic events, and attended Canadian 4-H Council meetings. 4-H staff also participated in the Extension Branch Conference.

**Provincial Programs:**

Other programs held provincially not mentioned previously include:

- Teens Taking the Lead: Thirty-six Junior Leaders attended the February Conference in Tatamagouche.

- Annual Reports were prepared and in some cases presented to all Breed Associations and Nova Scotia Exhibition Associaiton.

- The 4-H Division maintained and did the bookings for the Farm Health & Safety Committee Booth.

- 4-H News was prepared four times in 1989.

- 4-H Staff weekly prepared an "Innovator" which features new ideas for staff and arrives as a Monday morning pick me up!

- Each program featured some aspect of Agriculture Awareness.

- Staff led Committees to organize Nova Scotia participaction in the Royal Beef Heifer Show and the Scotia Bank Hays Classic.

**Other:**

Regionally the 4-H Representatives planned and carried on many events. These included: Chat-a-rama for 33 Intermediate Members in the West. Joe Chisholm Seminar was held in the Eastern Region for 20 members. One hundred attended a Valley Livestock Class, May 13. The First Marilyn Naugler Craft Workshop was held on the South Shore. The three Western 4-H Representative and two Home Economists planned a 4-H Evening "Road Show" Leaders Workshop.

**In the 90's:**

Three new programs are already in the planning for 1990.

1. Nova Scotia will be hosting an Atlantic Future Dairymans Conference, co-sponsored by Eastern Breeders Incorporated Atlantic. This Senior Members Conference looks very exciting. It is set for July 12-14 at Nova Scotia Agricultural College.

2. In cooperation with the Livestock Branch, 4-H if offering an expanded poultry project. The Nova Scotia Agricultural College is hatching show quality birds of breeds that we have never been able to offer before.

3. Planning for the May 23-27 Canadian 4-H Council Annual Meetings is well under way. This conference was hosted here eleven years ago and now offers some exciting challanges.

The main challange for the 90's will be to ensure an educational and appropriate program to maintain a strong leadership base in Rural Nova Scotia.

**In Conclusion:**

4-H receives alot of support and help over the year. Many of the other branches are involved by judging projects, helping upgrade our computor skills, or speaking at workshops.

A special thank you to Jack Redden for all his work in 4-H over the years. We all certainly miss him. I also want to thank Rollie Hayman for his promotion of the 4-H Division while Director of Extension. Susan Horne has been a terrific friend and colleague. Her sound understanding of the 4-H program is very valuable.

The 1990 4-H theme is "Focus on 4-H" and certainly says it all!

Respectfully submitted,

Elizabeth Crouse

Elizabeth Crouse, P.Ag.
4-H Supervisor

EC/mvo

# 1989 STATISTICS

| | MEMBERSHIP BOYS | GIRLS | TOTAL | # OF CLUBS | LEADERS SENIOR | JUNIOR | AVERAGE TENURE SENIOR LEADERS | 4-H MEMBERS AVR. AGE | TENURE | AVERAGE CLUB SIZE | PROJECTS ENROLLED | COMPLETION NUMBER | PERCENT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HANTS/KINGS | 204 | 262 | 466 | 20 | 151 | 10 | 4.0 | 12.3 | 2.5 | 23.3 | 635 | 537 | 84.5 |
| ANNAPOLIS/DIGBY YARMOUTH | 99 | 172 | 271 | 20 | 133 | 1 | 4.4 | 13.9 | 3.8 | 13.6 | 493 | 415 | 84.1 |
| SOUTH SHORE | 77 | 105 | 182 | 12 | 70 | 0 | 3.3 | 12.4 | 2.4 | 12.4 | 333 | 308 | 92.5 |
| CENTRAL REGION | 224 | 382 | 606 | 28 | 225 | 26 | 5.1 | 12.6 | 3.2 | 21.6 | 1110 | 950 | 85.6 |
| EASTERN MAINLAND | 331 | 425 | 756 | 26 | 251 | 32 | 3.8 | 12.5 | 2.8 | 29.1 | 1447 | 1337 | 92.4 |
| CAPE BRETON ISLAND | 155 | 260 | 415 | 19 | 133 | 12 | 5.6 | 12.2 | 1.9 | 21.8 | 620 | 523 | 84.4 |
| NOVA SCOTIA | 1090 | 1606 | 2696 | 125 | 963 | 81 | 4.4 | 12.7 | 2.8 | 20.3 | 4638 | 4070 | 87.8 |

| | AVR. # PROJECTS TAKEN | | | | | | | | | | | | | AVR. # PROJECTS COMPLETED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1988 | 1.7 | 1125 | 1805 | 2933 | 131 | 962 | 86 | 3.5 | 12.4 | 2.5 | 22.4 | 4704 | 4033 | 85.7 1.5 |
| 1987 | 1.6 | 1133 | 1791 | 2924 | 134 | 902 | 91 | 3.5 | 12.3 | 2.4 | 21.1 | 4600 | 3826 | 83.2 1.3 |
| 1986 | 1.5 | 1066 | 1676 | 2742 | 132 | 965 | 70 | | 12.8 | 2.8 | 20.9 | 4287 | 3511 | 81.9 1.3 |
| 1985 | 1.5 | 1179 | 1800 | 2979 | 134 | 863 | 69 | | 12.9 | 2.4 | 22 | 4462 | 3666 | 82.0 1.2 |
| 1984 | 1.5 | 1259 | 1889 | 3148 | 140 | 871 | 103 | | 13.0 | 2.2 | 22 | 4815 | 3846 | 80.0 1.2 |
| 1983 | 1.6 | 1266 | 1874 | 3140 | 137 | 795 | 120 | | | 2.3 | 23 | | 3854 | 79.0 1.3 |

TABLE #1

TABLE #2
PROJECT INVENTORY 1989

| PROJECT AREA | PROJECT | #'S REG. | COMPLETION NUMBER | COMPLETION PERCENT |
|---|---|---|---|---|
| Homemaking | Crafts | 789 | 694 | 86.7 |
| | Sewing | 246 | 215 | 87.4 |
| | Foods | 356 | 332 | 93.3 |
| | Cake Decorating | 138 | 117 | 84.8 |
| | Heritage | 55 | 43 | 78.2 |
| | **TOTAL** | **1,584** | **1,401** | **88.4** |
| Livestock | Dairy Calf | 309 | 300 | 97.1 |
| | Dairy Yearling | 34 | 29 | 85.3 |
| | Beef Calf | 235 | 197 | 83.8 |
| | Beef Yearling | 12 | 11 | 91.7 |
| | Lt. Horse-English | 115 | 105 | 91.3 |
| | Lt. Horse-Western | 156 | 133 | 85.3 |
| | Draft Horse | 32 | 27 | 84.4 |
| | Horse-Other | 25 | 18 | 72.0 |
| | Poultry | 94 | 86 | 91.4 |
| | Dog obedience | 87 | 75 | 86.2 |
| | Sheep | 77 | 74 | 96.1 |
| | Sheep Yearling | 16 | 15 | 93.8 |
| | Dairy Goat | 45 | 44 | 97.8 |
| | Dairy Goat Yearling | 13 | 9 | 100.0 |
| | Swine | 11 | 9 | 81.8 |
| | Rabbit | 295 | 266 | 90.2 |
| | Oxen | 16 | 16 | 100.0 |
| | Veterinary Science | 29 | 24 | 82.8 |
| | Market Steer | 31 | 28 | 90.3 |
| | Market Lamb | 27 | 27 | 100.0 |
| | Fox | 3 | 2 | 66.7 |
| | **TOTAL** | **1,662** | **1,475** | **88.7** |
| Horticulture | Garden | 114 | 105 | 92.1 |
| | Floriculture | 66 | 63 | 95.5 |
| | **TOTAL** | **180** | **168** | **93.3** |
| Other | Woodworking | 446 | 385 | 86.3 |
| | Outdoorsman | 285 | 225 | 78.9 |
| | Fisheries | 12 | 12 | 100.0 |
| | Photography | 156 | 130 | 83.3 |
| | Small Engines | 10 | 9 | 90.0 |
| | Welding | 13 | 4 | 30.1 |
| | Field Crops | 6 | 6 | 100.0 |
| | First-Aid | 85 | 80 | 94.2 |
| | Self-Determined | 20 | 17 | 85.0 |
| | Exploring 4-H | 56 | 52 | 92.9 |
| | Junior Leader | 80 | 75 | 93.7 |
| | Tractor | 9 | 7 | 77.8 |
| | Other | 34 | 31 | 91.2 |
| | **TOTAL** | **1,212** | **1,033** | **85.2** |
| | **GRAND TOTAL** | **4,638** | **4,070** | **87.8** |

**TABLE #3**

## 4-H OFFICE STATISTICS

| | |
|---|---|
| No. Calls on Clients | 798 |
| No. Office Calls | 1,561 |
| No. Short Courses, Meetings, Tours Attended | 1,034 |
| No. Attending Short Courses, Meetings, Tours | 84,092 |
| No. Letters Written | 14,641 |
| No. Publications & Circulars Distributed | 9,400 |
| No. Radio & T.V. Broadcasts | 307 |
| No. Newspaper Articles Written | 440 |

# EXTENSION AGRICULTURAL ENGINEERING DIVISION

# ANNUAL REPORT 1989

EXTENSION SERVICES BRANCH
NOVA SCOTIA
DEPARTMENT OF
AGRICULTURE &
MARKETING

The work of the Extension Agricultural Engineering Division involves the provision of technical support services for Government programs to assist farmers and the agricultural industry in the construction of capital works. These works include all types of farm structures for livestock housing, crop storage and handling, land development works and land protection works. The Division is also involved with providing construction and technical service related to farm mechanization, crop processing and storage, as well as energy conservation and utilization.

The staff complement of the Division is made up of the following people.

| | |
|---|---|
| Agricultural Engineers | 9 |
| Agricultural Technicians | 8 |
| Aboiteau Superintendents | 5 |
| Casual Technicians | 4 |
| Total | 29 |

There were also 20 seasonal labourers with the division for varying periods of time to carry out the Land Protection work.

The Division was reorganized during the past year into two groups, with a new supervisory position created and filled with an existing staff engineer.

There is the Soil & Water group under the supervision of Hank Kolstee. There is now the Technical Services group under the supervision of Peter Swinkels. Peter also maintains his specialty as the machinery engineer. The current organizational chart is attached to the report as Appendix III.

For the purposes of this report the work of the Division is reported under five major program areas consisting of Land Development, Land Protection, Farm Structures, Crop Processing and Energy, and Farm Power and Machinery. Miscellaneous and general matters are included at the end of the report.

## LAND DEVELOPMENT

This aspect of the work is carried out by two staff engineers, one engineering technician, two survey assistants, two full-time inspectors, two casual inspectors, one casual chief inspector, with assistance from two aboiteau superintendents. The clerk of grants provides the clerical and accounting work. Overall administration is provided by the Chief Engineer.

Mr. Laurie Stewart, the Chief Inspector for the past seven years retired at the end of June. Subsequently, Mr. Crawford Bailey, an area inspector for the past four years was named chief inspector. Mr. Paul Kittilsen was hired to fill the vacancy created when Crawford Bailey was named Chief Inspector.

A summary of Land Improvement Policy work is as follows:

| | |
|---|---|
| No. of applications approved | 1032 |
| No. of applications rejected | 29 |
| Total value of applications approved | 9,182,214 |
| Grant value of applications approved | 6,886,660 |
| No. of applications approved over $10,000. | 102 |
| Total value of dollars approved for 90/91 | 700,145 |

A summary of work done to January 31, 1989, is included as Appendix I to this report. Work done is on the basis of claims paid to the above noted date. The Policy runs on a fiscal year April 1, to March 31.

It is worthy of note that 1989 was a drier than normal season. This accounts for a significant increase in volumes of work in several categories.

For the most part, unit costs of work have remained quite stable. Subsurface drainage prices have decreased with an overall average of price of $0.68/ft. which is .06 lower than in 1988.

This past year was the second year of the Land Improvement Policy under a five-year AFDA II agreement. There were no significant changes to the Land Improvement Policy which forms Part A of the Soil & Water Management Program, and administratively things went very smoothly.

This is the first time that applicants could apply for and receive approval to do more than the value of one year's work in the year of the application. Only ten per cent of the applicants chose to exercise this option, with only $700,000 of 1990/91 budget funds being committed. This option may not have been well known prior to the release of the policy.

Part B of the Soil & Water Management Program is made up of three policies; the Main Outlet Drainage Policy, the Pumped Outlet Drainage Policy, and the Cooperative Land Assembly and Development Policy. This part of the policy is jointly funded by the Province and the Federal Government and is administered by the Soil and Water Implementation Committee. Two members of the Engineering Division are on the Implementation Committee. Staff of the Division, provide the engineering for these policies. Statistics for these policies are provided in other sections of report.

The Division is also responsible for the engineering for the Farm Pond Policy and for technical consultation and design for irrigation work.

In order to provide the service to accomplish this amount of land improvement work, the staff who are responsible for this area of work made the following calls.

| | |
|---|---|
| **Professional Staff:** | |
| Drainage Calls | 185 |
| Pond Calls | 108 |
| Irrigation Calls | 39 |
| Misc. Calls | 48 |
| **Technical Staff:** | |
| Miscellaneous Calls | 241 |
| **Inspection Staff:** | |
| Field Inspections | 1643 |

The following service was provided:

| | |
|---|---|
| Subsurface drainage surveys | 35 |
| Drainage plans prepared | 40 |
| Irrigation system plans | 5 |
| Grassed Waterway layouts | 6500 ft. |
| Surface ditching profiles | 11,200 ft. |
| Surface ditching layouts | 22,300 ft. |
| Miscellaneous surveys & plans | 52 |

As well, staff were involved with a major drainage research plot in Cumberland County. Monitoring equipment was installed on the site and data collected from spring through fall. Some analysis has been carried out.

## LAND PROTECTION

This area of work includes programs related to the operation and maintenance of tidal dyke systems, the operation and maintenance of flood control structures on the Musquodoboit River and Briefly Brook and the construction of Main Outlet Drainage channels.

The land protection work is divided into five geographic regions each with an Aboiteau Superintendent to oversee and coordinate the work.

The land protection staff complement consists of a supervising engineer, 5 aboiteau superintendents, 1 surveyor, 1 survey assistant, 2 casual survey assistants and up to 24 casual foremen, mechanics, and labourers.

Two of the aboiteau superintendents also have direct responsibilities for inspection services associated with the Land Improvement Policy.

Major work on the St. Mary's Bay aboiteau was completed this year. This is a two barrel sluice now lined with 56" diameter sclair pipe with concrete headwall and wingwalls both upstream and downstream. This should be a fairly permanent structure. Rock work will be completed in January 1990 and dyke topping carried out in the summer of 1990. The project will be completed well within the estimated costs. Very little time was lost to inclement weather and a good rock source was found closer to the site than expected.

Aboiteau replacement and repair will be accelerated in 1990 with six aboiteaux scheduled to be completely rebuilt. An inspection of gate frames at the Windsor Causeway will also be carried out in May 1990, weather permitting.

Various types of surveys also occupied a large portion of staff time.

The single most time consuming project was the survey for the blueberry land levelling projects. A total of 53 days were spent on the project by our surveyors, plus help from the survey assistants.

Surveys were also undertaken to measure tobacco acreage for the Tobacco Growers Association and assistance was given to the Crop Expo 90 project in providing plot plans and doing field layouts of these plot plans.

A summary of work undertaken by the land protection staff is as follows.

| | |
|---|---|
| Aboiteaux constructed | 3 |
| Aboiteaux repaired | 9 |
| Main Outlet Drainage Surveyed | 147,000 ft |
| Main Outlet Ditches Staked Out | 106,830 ft |
| Farm Drainage Ditches Surveyed | 234,775 ft |
| Farm Ditches Staked Out | 321,158 ft |
| Dyke Profile Surveys | 550,584 ft |
| Land Forming Surveyed | 871 Acres |

With the change in application and approval procedures, the Main Outlet Drainage program stated out slowly, but progressed faster as the season went along. A number of projects had initial surveys carried out. Applications are now approved and work can begin in 1990.

The rebuilding and replacement of aboiteaux will continue at a more accelerated rate as structures become older. This will challenge our ability to carry out these projects with existing manpower and the funding available. Recent efforts to do more central purchasing for some materials used by all aboiteau superintendents is working quite well and helping to reduce costs.

The acquisition of updated equipment such as computers and electronic survey equipment enables us to increase efficiency and productivity of our staff.

A summary of work completed by geographic regions for land protection is included in Appendix II at the end of this report.

## FARM STRUCTURES

A very important segment of the Extension Engineering work is provision of engineering counsel and technical planning and assistance for farm structures. Farm structures include livestock buildings, crop storages, manure storages, machinery buildings, and other miscellaneous structures.

The farm structures work involves more of a team work approach than does some of the other types of engineering work. Engineers must work closely with other specialists in providing plans and counsel to clients.

Work in the farm structures field is carried out by three agricultural engineers and two draftsmen.

The Canada Plan Service is still a very valuable took in the building work. Many of the plan sets sent out use CPS details and components. Nova Scotia is represented on the main committee of CPS and on four of the nine sub-committees.

A considerable amount of the structures work is driven by Grants programs through our own provincial Capital Grants Program, AFDA II and the ALFI program.

Municipal requirements for building permits and building inspections based on the building code are increasing the need for site specific, consistent, complete high quality plans.

While not all of the plans we prepare are used to construct a structure, the integrity of our plans must still be maintained. The quality of plans and technical details of plans produced by our Division must continue to match the expectations of our clients and the professional standards of the engineering community.

A new concept was added to the Farm Mechanization show this year. A farm builders highlight area was designated. Quite a number of exhibitors placed displays in this area. Structures engineers coordinated this segment of the show and manned a booth in the area.

The Comprehensive Farm Development Program of AFDA II has generated considerable activity in structures work. Much of the work is related to beef barns and silos.

A tour of concrete tower silos in the Central and Eastern regions of Nova Scotia in May revealed that many silos are deteriorating and most silos are not being properly maintained. Mr. Hank Bellman, a silo expert from Ontario took part in the tour and did the silo assessments.

As a result of the tour, it was determined that two silos were unstable and should not be refilled. Many others need repairs and maintenance. A fact sheet on silo maintenance and repairs is being developed. A greater extension effort on the proper care and maintenance of concrete tower silos needs to be undertaken.

A new Manure Storage Policy was introduced this past year. There were 131 applications made by clients under this policy requiring 131 engineering assessments. Many requests for plans were accommodated by using standard or stock plans. However, several projects required that new plans be developed.

This was the second year of an ALFI Project on hay drying. Monitoring equipment was installed in a barn in Hilden and data collected during the hay making season. Data is now being analyzed.

Structures engineers were also involved in a number of seminars and workshops as guest speakers and lecturers, gave lectures to NSAC classes and participated in a number of tours in both the province and Atlantic Region as well as other Canadian and European destinations to look at various types of livestock housing systems and allied equipment.

A Manure Management Task Force was established during the past year. The task force mandate is to revise and update the old Animal Manure Management guide. Structures engineers are very involved in the project.

A summary of the structures engineering work is as follows.

| | |
|---|---|
| New Custom Plan sets prepared | 158 |
| No. of Plan Sets distributed | 2770 |
| N. of Plan Sheets distributed | 5000 (approx.) |
| No. Farm Calls by staff | 726 |
| No. Projects to which Engineering Supplied | 695 |

A summary of the custom plan sets prepared by the Truro and Kentville offices follows.

| Category | Truro | Kentville | Total |
|---|---|---|---|
| Beef | 14 | 26 | 40 |
| Dairy | 11 | 8 | 19 |
| Hogs | 4 | 9 | 13 |
| Sheep | 0 | 1 | 1 |
| Poultry | 0 | 3 | 3 |
| Fruit & Vegetable | 3 | 10 | 13 |
| Grain, Forage & Feed | 6 | 6 | 12 |
| Buildings Engineering | 2 | 5 | 7 |
| Miscellaneous | 28 | 22 | 50 |
| Total | 68 | 90 | 158 |

Materials lists and cost estimates were also prepared for many of the plan sets distributed.

As well, the draftsmen have worked on the preparation of various other resource materials.

## CROP PROCESSING & ENERGY

This aspect of the work involves engineering input into several areas of agriculture. The main categories are:

- Provincial Grains Commission
- On-farm Grain-Feed Facilities
- Refrigerated Fruit & Vegetable Storages

This work is carried out by one staff engineer and a draftsman (shared) and other technical support staff as required.

## Provincial Grains Commission

Expansions and renovations continued with three of the provincial grain centers during 1989. Additional storage and handling facilities included five additional storage bins at Steam Mill and two at Middleton with a capacity of 11,000 bushel each. The handling and control system involved both supply and return conveyers, bin unloaders, a new electrical building and service supply, as well as an overhead structural steel catwalk system. This equipment was acquired through the Supply and Services Department with separate requisitions and specifications for each equipment component.

## On-farm Grain and Feed Facilities

Activity in this area during 1989 involved the Dairy, Hog, and Poultry segments of the industry. Input involved providing information, counseling, preliminary and developed plans as well as construction and operating assistance. Interest from the poultry sector is new to on-feed processing.

The capacities of the facilities range from 150 ton of feed per year for some of our dairy producers to over 2500 tons per year for our larger hog producers. This range of capacities indicates the need for further developments in on-farm feed processing.

## Refrigerated Fruit and Vegetable Storages

Requests for information for fruit and vegetable storage and handling systems remained high during the past year. Increased emphasis on quality cooling and handling is evident.

Plans developed by our Division for construction and insulation detail have been accepted and adopted by the material supply and construction industries.

In the area of removing product field heat, we are making progress in promoting the effective utilization of forced air precooling. Several aspects of refrigeration must be addressed in this promotion. They include equipment sizing, handling procedure and system layout and improved in-storage monitoring equipment.

## Grain Storage & Drying Project

The project work initiated in 1988 was continued in 1989 on a Cumberland County farm and a farm in Antigonish.

Three types of bin aeration systems were monitored in these investigations.

The weather during harvest was drier than normal. Grain went into the bins at 11.5% to 12.5% moisture content. Drying was not required. However, the bins were continuously monitored to establish cooling trends and equilibrium moisture content relationships.

At least one additional year of monitoring will be required to meet the objectives of the project.

## FARM POWER & MACHINERY

The area of farm mechanization continues to be the segment of the industry which is experiencing very rapid change.

In order for the producer to compete in today's agricultural industry, he must be able to steadily increase production and provide a better quality product, with little increase in cost to the consumer.

This segment of the work is handled with one staff engineer and one engineering technician with assistance from other technical support staff as required.

Following is a list of machinery introduction, evaluation and demonstrations that were supported through various projects. These events range from 1/2 day programs to programs that were continuously monitored and evaluated throughout the year.

Corn Harvester
Sub-soiler Evaluation
Strawberry Harvesting Mechanization
Hay Compactor Design and Evaluation
Forage System Evaluation
Evaluation of Land Levelling in Blueberries
Lettuce Transplanting
Big-bale Handling systems
Cultivator Design and Construction
Expo '90
Tube-O-Later

Short courses were held on the following topics.

* Safety Course
* Development of Mechanization for the Strawberry Industry
* New Development in Sprayer Technology (strawberries)
* Proper Pesticide Application (blueberries)
* Custom Machinery Operation (cereal production)
* Blueberry Land Levelling Methods

Field Days included:

Demonstration of vegetable transplanter
Demonstration of Strawberry harvester
Plowing demonstrations (4)

Approximately 35 individual farm calls were made by the engineer on various mechanization projects mostly in the area of forage handling systems and specialized horticultural equipment. There were over 150 calls made by the technician.

The Atlantic Farm Mechanization Show was held during the week of February 20, 1989. The show had over 100 exhibits with a wide range of new equipment on display. Poor weather conditions caused a slight drop in attendance but the show was a major success.

The spray check program was a major thrust this past year. The program offered sprayer evaluations and adjustments to individuals who wished to avail themselves of the service. Over 140 units were evaluated and calibrated throughout the year. The program was very successful. The program will continue for next year with greater emphasis on calibration of the sprayer unit.

Work is also ongoing to develop a computer model to assist farmers in the most suitable forage handling system for their farm unit. This work is being done cooperatively with the Technical University of Nova Scotia and the Atlantic Farm Machinery Institute.

## OTHER ACTIVITIES

The Engineering Division is also involved in many other areas of work through various professional and departmental committees and boards.

Some of the committee on which staff members serve include:

1. Atlantic Committee on Agricultural Engineering
2. All ACAE Advisory Committees
3. Canada Expert Committee on Agricultural Structures
4. Canada Plan Service Management Committee
5. Canada/Nova Scotia Stream Alterations Committee
6. Environmental Wildlife Committee
7. NSDA Research Committee
8. Agricultural REsearch Institute
9. NSDA Committees such as Community Pastures, Limestone, etc.
10. AFDA II Soil & Water Implementation Committee
11. Professional organization Councils & Committees such as APENS, CSAE, ASAE, NSIA
12. Canada Plan Service Specialty Subcommittees (5)
13. Atlantic Land Improvement Contractors Association
14. Environmental Task Force on FArm Waste Management
15. Nova Scotia Soils Institute
16. Atlantic Farm Machinery Institute
17. Interdepartmental Technical Flood Committee
18. Atlantic Farm Mechanization Show Board of Directors

All of these committees require time and inputs from various staff members and account for a significant portion of our time and efforts. However, these tasks are mutually beneficial to the committees and boards in question as well as to the individuals serving on them and to the Engineering Division as a whole.

The Tenth Annual Atlantic Committee on Agricultural Engineering (ACAE) Workshop was held in Truro on February 6-8, 1989. All of the staff engineers were in attendance. Over 60 agricultural engineers from the Atlantic region attended the three-day technical seminars and workshops.

Staff members also attended a variety of conferences, both professional and general, as well as technical seminars, general seminars and short courses, and professional and personnel development courses. These are all very important aspects in keeping up to date and abreast of new technologies and being able to convey that knowledge and technology to the client.

Five staff meetings of the Extension Engineers were held during the past year as well as five other staff meetings with staff working in various areas of specialty such as soil and water, and farm structures to discuss programs.

SUMMARY

The Engineering Division continues to experience strong demands for its services from the Agricultural community. Striving to keep abreast of new technology and to supply a high quality engineering service to our clientele continues to be the aim and objective of the Engineering Division.

This report has attempted to summarize the Division activities and to highlight milestones and accomplishments.

We would like to extend our appreciation and thanks to other members of the Department for their cooperation and guidance over the past year. Team work is very important and very necessary as we deal with a divergence of situations and problems. A special thank you to our Director for his guidance and support.

I personally want to extend my thanks to each and every member of the Division for their efforts, cooperation and support during the past year.

A special thanks to the clerical staff for their support and very valuable contributions to the operation of our Division.

3/9/90

## APPENDIX I

### LAND IMPROVEMENT STATISTICS 1989-90

### (JANUARY 31, 1990)

| CATEGORY | UNITS OF WORK COMPLETED | TOTAL COST | # OF JOBS | AVERAGE COST |
|---|---|---|---|---|
| Land Clearing | 2275 Acres | 1,938,495 | 364 | 852.09/Ac |
| Windrow Removal | 62,027 ft. | 124,859 | 77 | 2.01/ft |
| Apple Tree Removal | 11,988 | 23,377 | 18 | 1.95/tree |
| Underdrainage | 3,950,000 ft. | 2,678,869 | 360 | 0.68/ft |
| Surface Ditching | 580,750 ft. | 348,152 | 227 | 0.60/ft |
| Ditch Spoil Levelling | 300,665 ft. | 85,752 | 123 | 0.29/ft |
| Land Forming | 822 Acres | 283,291 | 71 | 344.64/A |
| Roads on Dykelands | 28,510 ft. | 25,140 | 10 | 0.88/ft |
| Land Levelling | 564 Acres | 187,580 | 129 | 332.59/A |
| Blueberry Land Clearing | 259 Acres | 51,800 | 37 | 200/A |
| Firebreak Construction | 96,969 ft. | 8,584 | 13 | 0.10/ft |
| Blueberry Heavy-Equip. | 553 Acres | 115,676 | 36 | 209.18/A |
| Debris Removal* | N/A | 98,497 | 24 | N/A |

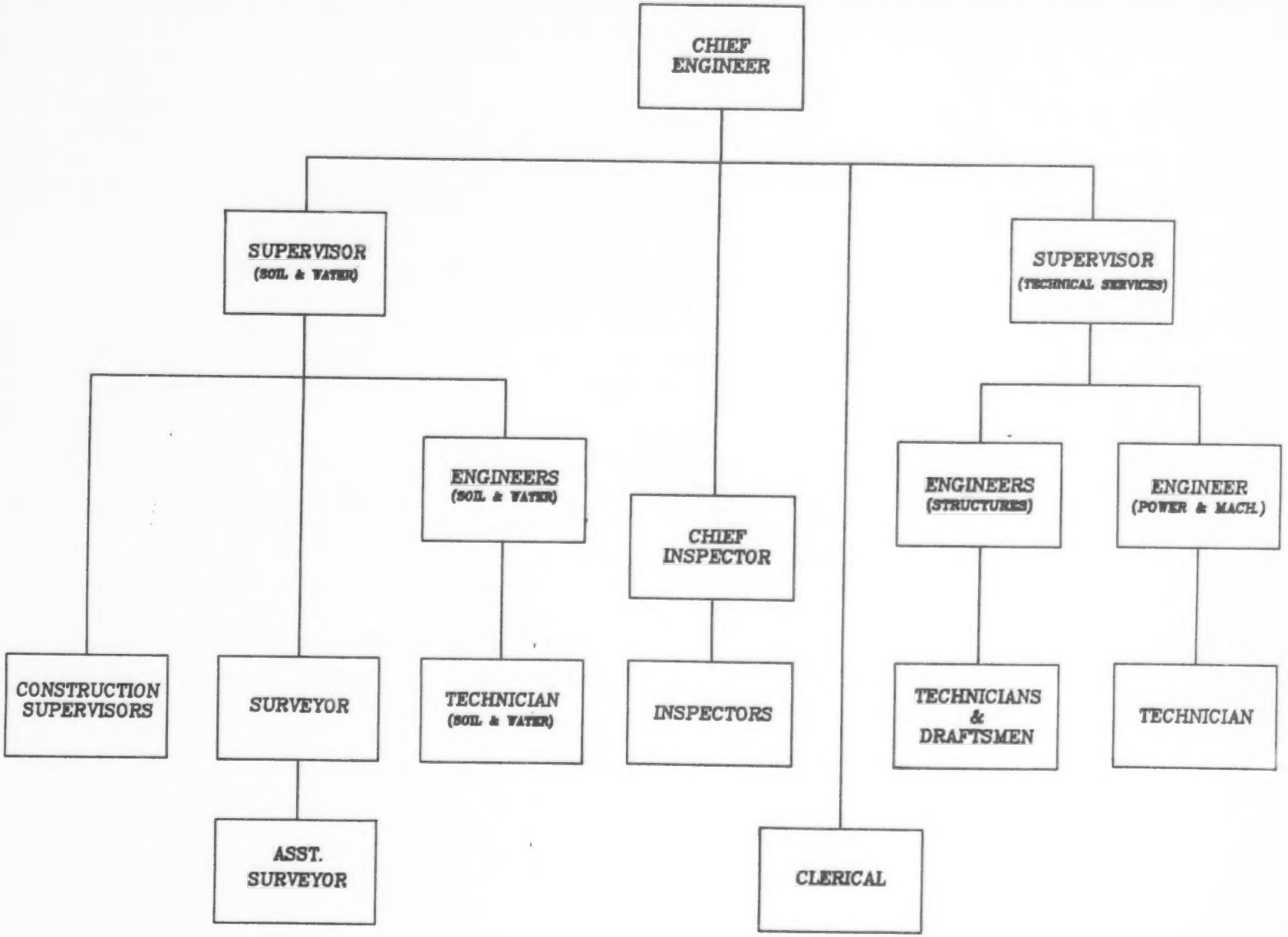
* includes burying rock, burning old piles, rotoveyor work, etc.

APPENDIX II

**LAND PROTECTION WORK**

| | AMHERST | TRURO | WINDSOR | KENTVILLE | ANNAPOLIS | TOTAL |
|---|---|---|---|---|---|---|
| MOD Excavation feet | 4,500 | 47,300 | 28,400 | 53,230 | 2,400 | 135,960 |
| MOD Spoil Levelling feet | 30,500 | 45,090 | 18,550 | 19,640 | 35,000 | 148,780 |
| Rock Placement Tonne | 11,854 | 10,130 | 700 | 13,100 | 25,207 | 60,991 |
| Aboiteau Replacement & Major Repair | 7 | 3 | 1 | 2 | 1 | 14 |
| Total Aboiteau in area | 73 | 89 | 54 | 41 | 21 | 278 |
| Total Miles of dyke | 48.7 | 44.8 | 21.4 | 25.9 | 9.2 | 150 |

APPENDIX III



## NOVA SCOTIA DEPARTMENT OF AGRICULTURE AND MARKETING

### ASSISTANCE PROGRAM SUMMARY REPORT

### CAPITAL GRANTS - 1989-90

| PROVINCIAL | | APPROVED | PAID |
|---|---|---|---|
| Farm Buildings | | | |
| 1. Dairy | Grant | 285,120.00 | 182,740.83 |
| | Value | 1,445,600.00 | 1,012,031.63 |
| | Units | 51 | 35 |
| 2. Goats | Grant | 6,800.00 | 1,499.60 |
| | Value | 34,000.00 | 7,497.99 |
| | Units | 1 | 1 |
| 3. Poultry | Grant | 62,650.00 | 43,983.86 |
| | Value | 343,249.00 | 339,012.60 |
| | Units | 11 | 8 |
| 4. Greenhouse | Grant | 74,931.00 | 48,169.85 |
| | Value | 374,655.00 | 247,286.66 |
| | Units | 29 | 22 |
| 5. Machinery Storage | Grant | 208,736.00 | 99,101.62 |
| | Value | 1,043,680.00 | 517,250.83 |
| | Units | 67 | 42 |
| 6. Bedding Storage | Grant | 46,840.00 | 25,181.37 |
| | Value | 234,200.00 | 131,755.46 |
| | Units | 14 | 7 |
| 7. Equipment | Grant | 16,040.00 | 8,543.76 |
| | Value | 80,200.00 | 42,718.81 |
| | Units | 15 | 12 |
| 8. Renovations & Additions | Grant | 178,815.00 | 76,809.46 |
| | Value | 894,075.00 | 404,903.27 |
| | Units | 72 | 48 |
| 9. Insulation & Ventilation | Grant | 5,700.00 | 2,600.52 |
| | Value | 28,500.00 | 13,002.60 |
| | Units | 5 | 3 |
| 10. Maple Syrup | Grant | 0 | 46,032.58 |
| | Value | 0 | 46,032.58 |
| | Units | 0 | 1 |

| | | | | |
|---|---|---|---|---|
| 11. | Hogs | Grant | 154,780.00 | 110,942.07 |
| | | Value | 773,900.00 | 622,411.36 |
| | | Units | 32 | 26 |
| 12. | Tobacco Kilns | Grant | 3,000.00 | 2,592.05 |
| | | Value | 15,000.00 | 13,829.57 |
| | | Units | 2 | 2 |
| | TOTAL | GRANT | 1,089,444.58 | 648,287.57 |
| | TOTAL | VALUE | 5,313,091.58 | 3,397,733.36 |
| | TOTAL | UNITS | 300 | 207 |

Farm Safety

| | | | | |
|---|---|---|---|---|
| 1. | Safety Equipment | Grant | 123,525.00 | 70,715.92 |
| | | Value | 247,450.00 | 149,457.70 |
| | | Units | 90 | 52 |

GRAND TOTALS

| | | | |
|---|---|---|---|
| GRAND | TOTAL | GRANT | 1,212,969.58 | 719,003.49 |
| GRAND | TOTAL | VALUE | 5,560,541.58 | 3,547,191.06 |
| GRAND | TOTAL | UNITS | 390 | 259 |

## LIMESTONE

Limestone usage by Nova Scotia farmers in 1989 totalled 86,712 tons - up 14% from 1988. In the table below, limestone usage by county is set out with comparative figures for 1988, 1987 and 1986 provided.

**LIMESTONE USAGE BY COUNTY**

| COUNTY | 1989 | 1988 | 1987 | 1986 |
|---|---|---|---|---|
| Annapolis | 4,532 | 4,353 | 4,913 | 4,966 |
| Antigonish | 6,270 | 6,929 | 8,077 | 6,162 |
| Cape Breton | 2,449 | 3,108 | 3,125 | 4,113 |
| Colchester | 11,862 | 9,663 | 13,402 | 11,200 |
| Cumberland | 14,043 | 9,242 | 12,365 | 13,463 |
| Digby | 503 | 393 | 518 | 419 |
| Guysboro | 463 | 141 | 408 | 436 |
| Halifax | 2,461 | 2,516 | 2,728 | 1,470 |
| Hants | 9,245 | 8,472 | 10,448 | 9,913 |
| Inverness | 3,989 | 3,238 | 5,261 | 4,640 |
| Kings | 19,599 | 17,282 | 20,559 | 23,025 |
| Lunenburg | 3,337 | 2,489 | 3,427 | 3,008 |
| Pictou | 6,372 | 6,234 | 9,853 | 7,277 |
| Queens | 361 | 69 | 154 | 101 |
| Richmond | 197 | 194 | 286 | 269 |
| Shelburne | 79 | 313 | 42 | 208 |
| Victoria | 91 | 256 | 107 | 410 |
| Yarmouth | 859 | 1,098 | 1,205 | 1,254 |
| | 86,712 | 75,990 | 96,878 | 74,751 |